

<210> 3675
<211> 144
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057d07a1

<400> 3675

gctgatcgtg gggaggccag tgatgtgcga aatgaaggag atgcagcata atagctatag 60
tggttacaaa aggcaacaga taacagacga gaacggaaaa tatagggttt ggtgatttac 120
cctggatata ggatgaagag agag 144

<210> 3676
<211> 176
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057d07d1

<400> 3676

aaactattgg atataatgct ttgagcttaa gcatagttaa tcttacggac acaagtgact 60
ttttaaccaa cttgcaatga agcttaaaaa attagccaaa ggatgctttc tgcgatcatg 120
ggatccacca taatcatatg cgacgcttgc catgttcaga catagggtac cataat 176

<210> 3677
<211> 483
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057d08a1

<400> 3677

aagacttggg gcagaagaac ttgggtttat taattgaatg tcaaaaacac atggaggcat 60
caaaattttc tgatgaagtt atctctgagt tggagagtga aaaccttatg caacagatgg 120
agctagagtt cttgttagac gaaatcagaa agttcacaat ggggattcat caagttcttg 180
cagctcttca gattgattca ggtggggggc atggcaaagg gatcaagcca gaggaaatgc 240
ctatatcgca tattctcaat aatatcgagg gcttgaaagg ctctcttggtg aaaaccaag 300
aggagaagct gctgctactt gtagagaatg ctatcctcct aactgtactt ttgcaacaag 360
aatccgaggg agaagaactg gtgttagaga aaaggatcct agagcaagag tttgaaaata 420

cacgagagca acatgcaatg ttgcagaagg tttagcttga acttgtggag atgaacaagc 480
aac 483

<210> 3678
<211> 409
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057d08d1

<400> 3678

gctgtaatca attgtttatt caaatgtaca acgcaagaaa aagaaaaaga aatccatgaa 60
ttgtaaatta atttatttaa ttaattattt ctttactttt ccaacttttt ttaatagccc 120
acgattttca ggcggttaaat ataataaac cactacgcaa caacgcggga ctacagaaaa 180
agggtccacc cgcgttatcc tgtgatgccg ccgcaccgga tcgcgctggt cgccggaata 240
ttccttcgcc ggaaaactgc cgagcactcc ggcaactcgc cgagatcggc gaatagcgac 300
tcgtcctctt ctctcatcgg caccggcacg tcctctacct cgccgcagat cgggctctct 360
aggacgccgg tggacgctac gtcacgaac caccgaagt ggtggtggt 409

<210> 3679
<211> 540
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057d09a1

<400> 3679

tcgctgcgta atcagatcat atggtatgga gcatggcaga ggcggtcgag taaggaaaaa 60
gaggagctga cctcaaccct tgtaagttgg acaatgactt gactattggc gtgatctctt 120
tgctttctag gatcattaat acaggaaaat taaagtatcc ttttgctaataa aaagctcatt 180
tgaaaacagt ggcatttgct ccaaccaaata tctactacaa agggaaaaat acatgcagta 240
tcattttaag gactggtcgg ctagaattcg gctcacactg atacatgacg cttttcgagt 300
gagggagaac tccatagaaa ttagaaggag agagagaaat agaaactaaa ttttgaattc 360
ttttttttcc tactcttgta tcagtcatta caatagtata tatagccatg ccacacctaa 420
gaacaaaata caataacaaa atgcagttac agaattgctaa caattgccaa atgctttcta 480

gaacctactg acttattact cgggcttagg cctcatatct aaaagaaaca tatggaaata 540

<210> 3680
<211> 457
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057d09d1

<400> 3680

gtaaaaagca agtaacatta agttggattc ggatacacia gataattcac attatctgaa 60
gtacttcacc aaacacaaat ctaaaaactc tcaaaagtca tttcgttctt tgacgtcac 120
tttccgggga cgaagttggg ggcataggcc caggcgttgt tggtgacagg gtcagcaagg 180
tgatcggcga ggttctgcaa tggacccttt ccggtgacaa tggcctgaac aaagaagcca 240
tacatagaga acatggccaa tcgtgcgttc ttgagttcct tcaccttaag ctcagcaaaa 300
ggccttgggt catcagcaag gcccaatggg tcgaagctgc cacctgcgta gatcgtgtca 360
gtgacctcac cgagggggcc accagcaata cggtaacctt caacggcacc cattaggata 420
acttgtgtgg accagatggc gaggatgctc tgggcgt 457

<210> 3681
<211> 578
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057d10a1

<400> 3681

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gctgaagaga tgggtggaag aaggtgctga acttccagct gaagaagctg ctgctctgcc 120
accgcctcca acaactgctg ctttccagaa tggttcatct gaatacaact tgagatctgc 180
attgaagact gagagatcac ctctattga gggctctaac ataagaacta ctagccctga 240
gcttagtcca gggatgccac cgataccacc cagcgcagat caattctcag cccgggggtca 300
cttgctgtgt cgatcaagggt atgatgacac ctttaaccaa agtgggtggaa cctctgcaaa 360
cttgtctcag ttccctgctg ctccatctgt gaaaccagct gttgctgcca atgcgaagtt 420
tttcgttctt actgccgcac catcaaatga gcagacaatg gaggctatag cagacagcac 480

gcatgaagat agtgcaacaa atgagtgttc gtaccaatcc cttaatcatc aacgaccata 540
cataggtacc agtttgggaa catctcaaac cgggagca 578

<210> 3682
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057d10d1

<400> 3682

agagaaaagg ggggtataaa tttatattat acaataaaaa aaattcagca tcctttggtc 60
aacgtttctc caagtcttcc ctgatctaga agttggaact cccgtttgaa tctctggatt 120
aacctgaact ttgttctttg caacatatgt catcctatcc ctaataatat tgtgtaatat 180
tggatagtag aagcatttca gatgaataaa atagttaaata aagtaaataca actttgtgag 240
aataaccaag aagcattgcc atggcagccc tagctcatgc taccatctgc tcctgctcta 300
tatacagctg ctccatccat ggtggaagca tctctttact gagatcatat tggtgcttct 360
cagcaccaaa tatctcagac ctctcggagg gaacatcttt aaccaatgaa tgaacccatg 420
agacatacgg ctcagcacca aattcaggct gtgctatggg ggatgcagtt accccactga 480
ttctgaa 487

<210> 3683
<211> 399
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057d11a1

<400> 3683

gcagaatgag tctcatggta ttgttaatca acttcctgag caagggatcc ctgtcatgat 60
tacatggaac tatggtggta acaatgtggc tgtggaggga tcttgggata actggacatc 120
taggtgagat ttaacgactg ctttttttgggt aacagtagta ctgaattgta tttgacatga 180
aaagttatca taactgcaaa tgatctacaa tgagattagt accagtgaat tctattactt 240
gcaggaaggc attacagcga tctggcaagg atcactcaat ccttatagtg cttgcaccag 300
ggatatatca ttacaggttc attgttgatg gtgaagagag atttactcca gagctatcca 360

atgtagctga tgagatggga catgtgtgca atctttcttg

399

<210> 3684

<211> 300

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220057d11d1

<400> 3684

aagtagaaaa ggtacaagta ataatcatca ttaaaaatag tgtccaagac tatataaacc 60

acaaacacaa tttagacaaa ttaatgttgg atccttgggt tactgtagca tgtgtggcaa 120

gatgatctta gtaggagtaa cctttgacga acattccccg agtggcttcc tcagattcac 180

cctaggcagt gtactttcca agctgagcga atgagttgga cttggcacgg aaaaggagtg 240

cattttgagc agcctttaag ttctcaagga gtccacccca tgttttcaag caagtgtttt 300

<210> 3685

<211> 293

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220057d12a1

<400> 3685

acatgacaga cacaacatga tccttgcctt gaaggatatt gggccataga actagctatt 60

gggtgctggca gcctgttgat tctattaaag caaaaatcct ttgtgtagcc tatatattgg 120

tttgttcaaa acctggetta tggtgatat attctagtcc gactagtctt aacagtgggtg 180

gttatggatg aggtacagac tctatatgac atgctttgtg gcaatatctg ctgtcctatg 240

actatgacat acctgtggga attcattgtg caaaagctta ttttgactgg att 293

<210> 3686

<211> 324

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220057d12d1

<400> 3686

aacacaggat aaataacatt ttattacaaa gtctccata gcatacaata acaaagttac 60

atggaaattc attaactacc actaacaata ccgttatagc cgggtcaaaa tgctgaattt 120
aaacaaaact aaagagatga agcacatgta catttatttt tatttttatg aaacttagat 180
tgaaacaata caacttaact atatgttgat gctttgccaa gtgattctgc aatcttactg 240
gcaatacagt aagatgtaga ctgaatgggt accatggggg tgacaccaac tgcactaggc 300
aaaacactcc catcacacac atac 324

<210> 3687
<211> 506
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220057e01a1
<400> 3687

gtctaaatat ggagtcctct aggaggtaca aagtgggtgc acagagaaag gccttgatca 60
gatgatgctt gctgtgttaa gcgtctgaga ttatgtggcg ccatacttgt tgggaagact 120
aatatgcatg aacttggggg tggaattagt ggtatcaatc cacattatgg gaggttcttc 180
tagtggatct gctactgtgg tgtctgcagg attgtgccct gttgcccttg gtgttgacgg 240
gggagcatgc ttgttcaggt tctgtgaggg tgccctgcac tctttgtggg gtagttgggc 300
taaaaccaac ttttggccgt gtacctcatt ccggagtcct tcctctaaac tggacagttg 360
ggatgggttg aatactagcc ggcactgttg aggatgcatt gatcacttat gcagccatta 420
gtggagaaat ttcattccat cagccctcta atatgcttac caagataaat ctttactgc 480
tgcccttgac gaaatccata tgtgac 506

<210> 3688
<211> 268
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220057e01d1
<400> 3688

aaaaccaatt agaatgacgt ttagattaca aagcaaaaaa gaaatggaac aaaagcgaag 60
ggacaagcaa gaaggaagca agagctgatg gacgagatca cgagaagaag gacccgcgag 120
aatgcagggt gaacatatca ggcgggtggg tcaagagcga gaccgccta gacccgggag 180

ttaccattga gggtagccga agaccggatg accaaagcgc tgggccctgg aagaagatag 240
 agtgtgctgt agaatgcaac cggcgagc 268

<210> 3689
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057e02a1
 <400> 3689

cagccacact tcttcgccgt ttcagctgaa gagccatccg caggtaagca atggttaagc 60
 ataataatgt tatccccaat gggcacttcc ggaaacactg gcaaaactat gtgaagactt 120
 ggtttaatca accagcccga aagaccagaa gacggttggc tcggcagaag aaggctgtca 180
 agattttccc caggcctact gctggatctc tcaggcctat tgttcatggc cagactctga 240
 aatacaacat gaaagtcaga gccgggagag gattttcact ggaagaattg aaggctgcag 300
 gaattcccaa gaaacttget ccaactattg ggattttctgt tgatcacccg agaaagaatc 360
 gttcttttga gagtctgcag gccaatgtgc agaggctcaa aacctacaag gctaagttgg 420
 ttgtgttccc aagaagggca cacaaagtca aggctggtga ttctagcctt gaagagctg 479

<210> 3690
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057e02d1
 <400> 3690

tttatttttt tttttttttt ttttgggaag aatcattatt ttgctctatt aaccatccat 60
 gtttacaatc caggaaaata taacagttaa aaaaatgatc atgaaaaaat cttaaaaaaa 120
 aataactatc taaaatttaa acaggcgccc gtacctaggt ccgctgttct acatttacia 180
 gggcacgagt atattgaggt caaagcccta catgaagggt ctatatataa actctagtaa 240
 attgtaactg accctaagga atattggaca taccacgcgc aaaatgacta aattcagggc 300
 actacaaaac cacaacacca ggaaacaaac aaccagttca taaaatcttt atctggcacc 360
 ttgagaagac cttggataga aatcccagaa gctggaacca actgggttga tgggacctac 420

cgatgtggag caagcaccca ctg

443

<210> 3691

<211> 136

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220057e03a1

<400> 3691

attgcatcca atatattaat atatgttgag cacgttgaag atgattaacg aagatttata 60

atttgacgag ggccctcatg agcgcataaa gattatctcg tttggtcagtg tggcacgagt 120

ggcccttatg tcctca 136

<210> 3692

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220057e03d1

<400> 3692

accatacccg ctgctgtagc attatacaca ttattattac tcttgtcccc gtcaagataa 60

atctgacccc ttcccctggt cccacctacg tatataggat attttaagaa atgaacatct 120

ctcttagtag tgggatccgg ggaaagaata ggaaagggtta tttctttata tttttgacca 180

ggaacagggc ctaccacaag aatatttttt tttgtacgac gatagttttg aaaagacaga 240

ttgcctatct tctcgtaaat ctcaggcgaa atacgatcgg tgggtgccaa ttcaaaacct 300

ttcggtaaaa tangaacagt cccacattc aaagctccct tttaccatta gcaagaac 358

<210> 3693

<211> 381

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220057e04a1

<400> 3693

cgaaaaagta acaaaatcgt aagaaacaga cgcataagt atccactgaa accctaaacg 60

catcagtctc agccgtcgat gccgtccagc aagtgaggtc gcaccgtcgt cgcaagacgc 120
 actaccctgg ctgccggaca atttgggctc aaagtctcca gccaatgat atgcacaacc 180
 ctagcaggca gtgagtgaat gagtcaagat gggaagatga gggaggaaga gatggctaag 240
 catcgatgag tgggtgcgaga ctgcgagagc aggcacctct actgctacgc atcttcttgg 300
 ccgacacagt gggagtctta accggcgacc tctgatacat atacatgcaa gctcaggtcc 360
 • tatttctcag acgtcactac c 381

<210> 3694
 <211> 543
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220057e04d1

<400> 3694
 ccttcttctc ctctatctat tctcatacta tctctgtcta ctccatatac tccctcatct 60
 ttccatcctc ctattcttat tatgcagttc atacatcctt cataatatcg ctccctactc 120
 tccacatttc gacgaccagc acacgccgcg tgtttaanaa aannaaanna aaaaaaaaaa 180
 aacaacctca ctagaacact agacggcccg ccgccctttt tttttttttt tctattgcaa 240
 agtttaaact tgcacgatta tcatcagaaa aaactataca atattactat ggaaatcacc 300
 ccgtaacaca atagacgact tgctcatata cattcccaa atgacaacac ctatataaac 360
 agtgatttct atatgcagta aaatacaaca aaattgatat ttcagccttc gtttccagaa 420
 cagcatatat ctgaacaaca tgtgatgcaa ccgaagcatc ctagaccaat gcagagttgt 480
 gtcaatgcag ttgcacattg gttggttatc cgggtacaac actggatgca gcacatgcca 540
 caa 543

<210> 3695
 <211> 394
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057e05a1

<400> 3695
 tgcatttgct ggtgaggcga ctcatctctc tctctctctc atctctccct ctctgtcatc 60

tctgccttcc aaaacaaagc accaattggt tcgaacgcc aacgcaatca cgaagaggggt 120
caccgcgaaa atgggtgttt gcgggtcgag gcccaaagt aaccaggacc tctcagagaa 180
caagaagaac atccaccacc gaagaagaag agagtgaatc ctccaaagac gcgttgcttc 240
tataaagatc gaagctcaca acgtttctca ctgcaatgga gctattcaag cttctaattgg 300
cgcttctgat gctgcttgga ctgattctac ttcggcattg gactctgagt gtgatgacga 360
atggtacacg tgtctattat ggagaagtgt ctac 394

<210> 3696
<211> 427
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220057e05d1
<400> 3696

tgtcgtcctt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttgt 60
ttttggtttt ttttcttttt tttttttttt ttttttgga aatttccacc tttccaaaaa 120
accacaaaaa gccaaaaaaa acccggggccc caaaatagaa ccggggcccaa cccacccggg 180
ccgaaaaacc ccccgggggg cccaccccc cggggggggc cccaataacc cccccaacaa 240
aagccccccc caaaccgaaa cccccagag ggggaccccc ccaaagccg gttacccggc 300
atcccccccc caaaagtgtt cgggcagaa caaaacccg gcaccaagga agcccccgga 360
ccccggccc cctccaagcc ccccccaac acccgggtca aacccccctc cagggaaaca 420
aaaacc 427

<210> 3697
<211> 503
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220057e06a1
<400> 3697

ggaagtttta ttttctgggt gtgtagagat taaagagagg aaggggaggg ggctgacaca 60
ttgttacctt gtaatagggg ttactgaag gtcttggtg gtgtgaacac aaacttcact 120
gtgacgtcaa aagcagcaga tgatggagaa ttctcagaac tctacatctt caagtggaca 180

tcactcttga tccctccaat gaccctacta atcatgaata ttgttggggg gggttgttggg 240
gtctcagatg ccatcaacaa tgggttatgat tcatggggac ctctcttttg tagattgctc 300
tttgcatgtg ggggtgatcct gcatctctac cccttcttga aggggctgct tggaaaacaa 360
gatagaatgc caaccattat attggttttg tcaattcttc tggcctacat cttgactctc 420
atgtgggtca gaattaaccc gtttgtgtca agagactgcc ccgtagtaga aatttgttga 480
ttgaattgcg acgagtcttg aat 503

<210> 3698
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057e06d1

<400> 3698
gccacgaaca aaaaagttgg ctttttctaa ataaaacctt tttaactttt caagtatata 60
tacataaaat ttaaattgta tcaactcgta aaaatcactt ggctgataat aagactaacc 120
tgtagggtcc aaaatctaatt attgtttctc ctcttcaactg ccatcatctc catttgtctt 180
atccccatcc ctgattttctc catcactcaa ctgcatatca gcagagtttt ctcttgctgg 240
acttgactgc ctttgtatta atggttcgtc atcatcagat tctgataatg cttgccttcg 300
ccgggctatg cttgaggaag gtgcaggcgc ttcctcatct gcacggaat cttcaagccc 360
agctgctgca agaagaccct gagcattttc ctcagcatca tcattcatct gagtttgggg 420
ctctctctg tagtttatgt cagcttcttc atcctccatt tctgatcat ccatcatatc 480
a 481

<210> 3699
<211> 433
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057e07a1

<400> 3699
gcaattgctc tgagagagaa aagcgcagct tgtatcatcc acgttactct ctccatctga 60
aagcagcacc gccgctgagt tgagtaatat ccgagacgcc accacagtga atattcaact 120

tggatactct gtagaggtta ttgcatggtc accgagatcc ggatccctaa tctatgccct 180
 atcagctcta accaccgaca gcaagacgac acattgctga ctatccgttg ctgtaaagcg 240
 ttacgctcgc ctctcctctc caaatgcggg atgtcctcga tactggctcc aattggaagc 300
 tgggtggctct tattcttctt cttattggcg gcattcctcg tacattgcct agctcattac 360
 gggcccttac tatgagcgaa ttgcgacac gactctacgc gacggcgagc agtccccggg 420
 cgcttcatg acc 433

<210> 3700
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057e08a1
 <400> 3700

ggttgattta cattggaaat caaagatgcc aagttccgac atgccttcca aaactgtaaa 60
 actctctctc tccgacaaca agtccttacc ctctttgcaa ctacccttcc gcaccacaga 120
 tatctctcac gccgcacctt ctgtctgcgc cacttacgac tactatctcc gtcttctca 180
 actcagaaag ctttggaaact cctcagattt tcctaattgg aacaacgaac caatcttaaa 240
 acctatcttg caagctctcg aaatcacctt ccggtttctg tacattgttc tctccgatcc 300
 aagaccttac tccaaccaca gagaatggac tcgcaggata gagtctctta tcacacatca 360
 aattgaaatc attgccctac ttcgtgaaga tgaggaacca aattccgacc cacgtggcac 420

<210> 3701
 <211> 330
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057e08d1
 <400> 3701

aaccctaata acaaaggggg ggcccttttta aaacgttttt ggcccccttt aattccaaaa 60
 gggagccaat acctacattg gaaatattcc ccaaaccttt aggggcatta aattttcccc 120
 ccaaaagaaa aaatggcccc agaaaaaaaa aaaaaaaaaa ctattgtatg aaattagaac 180
 actgttatat aacccccaaa agtttttttt ataagtatgg cgctttttct tacctatcta 240

aacgttttta ccaaagaga tcttaaccgg gagaaatttg atcaaaggac aaaacctttg 300
 gggatttcgc aggggaaggaa aaagggaag 330

<210> 3702
 <211> 60
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057e09a1

<400> 3702

aaatatgata acctgatgcg cttctctcct gtgtcattat ctctgtcttg ctatgctttt 60

<210> 3703
 <211> 419
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057e09d1

<400> 3703

ataaccaact taggctgtac ttaaaggagc aaaaatgaaa taaattaacc aacggaaaaa 60
 gccggtaaaa cggtcagatc cattaaaggg tgtgggaaac aaacggagtg gcccctaaat 120
 acaagggggc caagacaagg gaaaaacttg aaaacatgca ggaagcggat gccaaaggaaa 180
 cgagagctaga ttcgcaaggg accgccgcgc ggccattaaa ggacgcattc tgaaacagcg 240
 acctacctgc aggttacggg aacgaccagc cggtttttga aagggttaaca ggtggggcag 300
 cgaaaagctg tatacacccc aattaccgag ggggggtcaa aaacacaaat ctttacaacc 360
 gggaagcttg aacaatatcc ctaagcgggg gatcccagag aggggggaaat gaaacggaa 419

<210> 3704
 <211> 283
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057e10a1

<400> 3704

aattactttc tctctagacg ttactttctc tattctcaaa gtcacacaca gcactttctc 60
 tctcatctta actctctccc atgtctctc agtttcatcg atggagagtg aagccttaac 120

tctgcttatt ccgtgtccca gatctagctg ttgcttccga gtctttgatt cttctcttat 180
 ttcttctgct cacttcacat tccgattcgg cgcagattct tttggctgct aaacattagg 240
 atctggactg actgcatcgg tgagcgctaa ttgcaggcat ggg 283

<210> 3705
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057e10d1
 <400> 3705

acaagaatta agaaatacca tatcaatcaa tatatgggcg atattcatga atttcagtca 60
 cgccaaaatt tattattggc tgcagataat gttaaacttt gaaaatctct cctcagacac 120
 cgtctgaacg aacaatttcc ttctttttca catgatacgt taacacaagg caaagagtaa 180
 aaatggtttg ctgctggtaa tggtaatcat caaatcagaa aaaggcgctc tcctctattc 240
 atatactttg cattcctcat cagcagggtt tgtctcgcag aattcctcca atgggtctcc 300
 actccctgct ttagctgccc ctggccactt gcttgcact aggtgtgcca aatgcaccac 360
 cctttggctg taaccccatt cattgtcata ccaagcaacc atcttaacca tgtcatctcc 420
 catgaccata gtcaaggagg agtcggtagt agaggaaaca tcagagctgc ggtagtcgat 480
 agacacatgt ggaacatcac acacgttcaa cac 513

<210> 3706
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057e11a1
 <400> 3706

aaagaaccct caattttccg ggaaaaccct tcccacaatg gtttcccggg aaaacaccaa 60
 ttggctcttc gattacggct tgatcgacga tattcccggt ccggacgcca ccttcggcgt 120
 caattcctcc gccttcacat ggccccctaa cgccttgaac gcttcctcca atgtcggcgt 180
 tgaaattgat ggctcgtgg gggattctga cagcctcaaa gagtctggct catagaaaag 240
 ggtaggcct gagtcatgtg ctggttttgg catcaaggca tgtctggaga cagtgaagac 300

ggatcggcctt aatgacaagg ctgttgaact cggcgccatt ttggagcctg gaaagcctgc 360
cagaacagac aaggctgcta tactgattga tgctgttcga at 402

<210> 3707
<211> 379
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057e11d1

<400> 3707

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aactgtcaat gcctcacata tgacactaca tatgcttctt gcactaactg ctccggaaac 180
aaatgataca atgggttcagg acttatactg cacaacatgc ttaaacaatag ctatctccat 240
tcataaaaaga atcttattat ggaatccagt tcgtgatcga acttccatat tcactatgac 300
actagtactg gagcatatgg gctatcgatt gctacttgac tgccacaatg caatgataaa 360
tgcgtcatat gagattctc 379

<210> 3708
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057e12a1

<400> 3708

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acttgcttct gcttacttcg ccgccaaccc aagaacacca attgatgtgc catttggcag 120
aaactatgtg cctacttggg cctttgatca catcaaatac ctcaatgggtg gttctgagat 180
tcagcttcat cttgataagt aacttggtac tggtttccaa tccaaaggat cctacctgtt 240
tggtcacttc agcatgtaca taaaattggg tcttggtgat tcagctggca cagtactgc 300
tttctattta tcatccacaa actcagaaca tgatgaacat agactttgag ttccttgcca 360
aacagtaccc gggcaagctt acatttttgc aaactaaatg tgttcactgg gtggcagtga 420
tgacagagaa caaag 435

<210> 3709
 <211> 303
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057e12d1

<400> 3709

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 taaatttaag aattataaca gataaaaatc gctgtaaggc tactaattta atgtgataat 120
 ttgaacgtcg accaaagttc aaacttgcaa gaaatttaga aaatcttgct aatgatcgga 180
 cgtgctttac attgggcata caatggaatg gccttgggca ctatagttcc ccccccttcg 240
 ggcatatcta ctgtttcctc accaatcctt ttccactcaa aacattgaat caacgaacct 300
 taa 303

<210> 3710
 <211> 500
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057f01a1

<400> 3710

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 tcagatgaga gtgagcaagt gagggctatg actgagatgc aaggggttct ttgctcaaca 120
 agacccatga ggattggacc cgctctaat aaaaccccca ccactcagtc ccagcccaaa 180
 ggtatgtctc tttctttatc ttgtttgttc tttttgctgc aaatatctct ttcatatgct 240
 gcttaagggg aaattgagct gtccttggtta gatgagtgat actgggttgaa tttaatgctg 300
 tgtctcagaa tgttgttttt ggtgtatgct aaatgttatt aagttttgat tcttttcagt 360
 tacacacttg aagattcgca gtcaaactca tttcttctg caatttcctt taaaaatttg 420
 ggcaaaataa attatatata ataataaaat cttatagaac tcatgttgct tcgaagcagg 480
 gtgtcaagag gctctgtcat 500

<210> 3711
 <211> 156

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057f01d1

 <400> 3711

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt ttttttttgaa acttttt 156

<210> 3712
 <211> 401
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057f02a1

 <400> 3712

 ctccaaaccc attggattcc cctttggcaa acccagggtc caccatttg ttcacagtag 60
 ccaacaacaa ctccatcagc accaatcctc agcatcttga aagatatcaa gctcaagact 120
 agtgctatat attttgagtt gaggcttga aattgatttg atttttgtat ataggggaagt 180
 taattaattc tgagaggctt atagtttttt ttttggtggg ggtggagacg gttatataga 240
 atttggataa ttggtttttt ttccttggtt gaatctctct ctgtattttc cttctttttac 300
 tggttttatc catggtgaaa tcagaaagaa ggcagaagaa aatttttagac agtgaagatg 360
 atagatatca aagagaaagg gaaatgatac tgggttttttg t 401

<210> 3713
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057f02d1

 <400> 3713

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 gtcaagtcaa gttttatgat acattagacc ccaaaatccc aacaacatta tttaggtgag 120
 cagtttttat atcggacttt cacatgaaag ggtgataaag gcagataaaa gcatattctt 180
 tcaaccaccc cgaccatggg ggtaaagccc agggcaatgg tatgacttaa acggggaccc 240

atttcagaat tttttttaaa aacactggag atttttggaa ttggttcaaa atccaaaacc 300
 cttgttatgg gaaaaccccc ctttttgggg aaccagcccc ccccccaaa ggggggggtt 360
 cgcttgggct gactggataa acttcttttt ggaccctttg 400

<210> 3714
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057f03a1
 <400> 3714

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 cgtccgagga aagcttttgg gacttgtacg agagatggag gagtcaccac acggtttcgc 120
 gaagcctcgg tgaccagcac aagcggttta acgtgtttta agcaaagtgt atgcatgtcc 180
 ataacactaa caagatggat aagccttaca agctgaaact aaacaagttt gctgacatga 240
 ccaaccatga atttaggagt acctatgctg gctcaaaggt taatcaccac agaatgttcc 300
 aaggcacgcc acgtgggaac gggaccttca tgtatgagaa ggttggtagt gttcctcctt 360
 ctgtggattg gaggaagaat ggtgctgtca ctggtgtaaa agatcaaggc caatgtggta 420
 gttgttgggc gttttcaact gttgtagctg ttgaaggcat taaccaaata aagacaaa 478

<210> 3715
 <211> 143
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057f03d1
 <400> 3715

atactcctca catttattat atgacgggca acatgcctcg gatgcgaacg cccattggct 60
 tagaatccgt accttgaaaa tttgatctaa cagctcatgt tttccatgct gcacctcctt 120
 atcgaggagc ctctcatcaa acc 143

<210> 3716
 <211> 254
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057f04a1

<400> 3716

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ccggactggg acctaaagac acatgggact gtgggtctaag taacaggacc ctcagccact 120
tgagtagccc caagtatcaa ctactgccgt gatggacccg gacgttctga acatgctcga 180
cgatgccgcc aacgtcacgg agcgtgagcc taacatgcag ggtgtcgact ctgacattga 240
cagtaccctg ggga 254

<210> 3717

<211> 233

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057f04d1

<400> 3717

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aatgcaccat actaacgcag gacgatcgca ggaacctaaa ccggataacg agcaatgcaa 120
gcaggcccg gcccaccaac cggggccatg gcgcttacgc agggctgtca cacagcactg 180
acccatctaa aggcacttcc acaatctatc tggcacacca tgtcacctc ctt 233

<210> 3718

<211> 506

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057f05a1

<400> 3718

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taaggaggag aaggcaaaag aattagcaaa actagaaaga gagaaatatc aagatgcac 120
acgagaagct gaatatttga aagaatgtgc tgaaagagaa gcggcagaac agaaagaaat 180
ggagttgaga gccattcgcg ctgcaaaaga gaaagaaaag ctggaggatg ctctcagagg 240
ttccacgccc cagtaccgga agtttacatg ggatgaaata atcttagcta cttcatcttt 300
ctctgaagat ctgaaaattg gaatgggagc gtacggagta gtatacaagt gcaatttgta 360

tcacacaact gtagctgtga aagttctcac tcttaacact aacgtataca gcataagata 420
gcaattccag caggagttag agattttgag cagaattcgt catccaaact tgcttcttct 480
actagtgcac gtgcggatca tggatg 506

<210> 3719
<211> 341
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057f05d1

<400> 3719

aaggggaagga tgggccgtac atatctggta tgaaaggccc aaaaacagat gggaccccta 60
tctgtacatg tgccatatct ggcaaaactaa gggaagattt tatgatctac ccaggggacaa 120
gttagccttg aaagggtttt gggggcaaaa agatttttaa atacaatacc cccaaacaaa 180
cacacaaatt ttttaataac cttttttttt tagtttgcag gaacaatacc cggctgaata 240
aaaaggtggt caaacaaaga tgagaggcga gcaacttttg cttttacctt ttaaaaacat 300
tcagggtaat gggggccggg gataaaacgg ggggcttttt a 341

<210> 3720
<211> 347
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057f06a1

<400> 3720

cttgacgagc agtcgatagc aatagcttga cgcgccatgc tcgcctacga attctggtcg 60
tgcggtgca gaatgcactg ctacactgtt gagagaggca catccatgtc agttacgtga 120
ggccatgagg attcgacccc ttgcaggaga taggcttggg ggatctattg atcagcggcc 180
aggatgttc gaacaggtct ctagacgcat agatctggcc gtagagactc ttactgcata 240
cgatcgggga cgatattgag agggacacct cctatgactg tatgggcctg cgcgtgtcgg 300
ggactctaac cgtgcataac ctgtaggcaa aagtgcgga ggaggca 347

<210> 3721
<211> 390

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057f06d1

 <400> 3721

 ggaggcatat tgcattgaaa agggggaaaaa agggaaaggg acatatatac ctggatcact 60
 ctacttttggg agatggataa aaatcattta caattcagta gactaaaaat ttaaatagaa 120
 ataattatct aaactgaatc aagtgcagga atcaccaaac tcaataaaca agaacttcaa 180
 attttgagaa caaaaaatgt cactcagacc tccataatct ggttctatat ggacaaactt 240
 gctgtcaata actacactac actgtacaac attttcttga tcaagtaaaa gtgagcactt 300
 ctcatataaa ccttcctttg gcgctagatt caataagcag gatctaggag cagacacttt 360
 atactgcca atactgaaac tttcttgatc 390

<210> 3722
 <211> 454
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057f07a1

 <400> 3722

 aagatgaaga aggaagcaat tcttataaac tgcagtagag gacctgttat tgatgaagct 60
 gcacttgtgg agcattttaa acagaacccg atgtttcgag taggccttga cgtgtttgag 120
 gaagagccct acatgaaacc cgggcttgca gagttgaaga atgccattgt ggtacccac 180
 attgcatctg cctccaagtg gactcgtgag ggaatggcta cactagcagc tctaaacgtg 240
 ctggggaaga tcaaagggtg cccagtttgg tttgatgcca atagggttga accattcctc 300
 aatgagaatg ctcaaccacc agctgcatcc ccaagcattg gtaattgcaa aagcctgtgg 360
 tttgccaact ccaagctata aacatacatg gttctatcct acaaggcct tcaattgcac 420
 aaatgaccaa ttttggcctg ttgagttggg ctct 454

<210> 3723
 <211> 246
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057f07d1

<400> 3723

ttcgttcttt tttttttttt tttttttttt ttattttttt tttttttttt tttactggaa 60
attttattgt tcaatgtata tgcaacagaa gggataaaaa agacagagat acgattggac 120
cgggaaacag agagaaataa gggacaaaaa aaaacgcggc aaaacaccaa gaaaagcaaa 180
acaaagacac agaaacccat aaaccgcccg gcacaaaaac cgggccaaaa atagaataga 240
agcaaa 246

<210> 3724

<211> 475

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057f08a1

<400> 3724

cggaaactcg atcgtcttgc cttagcctaata ataattggcc accatgaccg atgaacaacg 60
agaaccacaa gcttccccga gcaatggcgt ccacaagtta gaaagaaaac aaatagctga 120
aagagaaaga aaacaaatag ctggaaggga tagatcggtt tttagaggca ggcgtgcacg 180
acctggggtt tctgattcat tttcaagcac tgacttgga gcttttagaga ttgaagaggg 240
ctctcctagg agtcaagggt ctgaaacccc aagttcaagg gccagcactt ctgattcgga 300
gagtcaggga tcttttgctg gggcacctaa taccaataac caatggcggg gtttctttaa 360
actactcaag aaaggatcac aaatgccttt ccaacctttt caccactta aaaatgttcc 420
aaaactgaca cgaagaaaaa gcaagaggat caggaggagac ctcatcctt ctctg 475

<210> 3725

<211> 482

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057f08d1

<400> 3725

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tagaactgac atccttagca gcatttggag atcatccttt gatcttagac agggagattt 120
cacttgagaa aaatcccgta ctaaagtaac attctaacca actgaaaaca aaaatattga 180

tcaatacaat tttgggagct acctagattâ tçagtcatca ctgtcatcat cggacataga 240
aatccaaaat tttgatgacg gttcgttttc tagtttcgta acaggatttg tggcatcatg 300
gttgtagtcc ctaaagcaca aaacaccoga atcttcagaa tagctagttag tagtaattct 360
acacccatct acaaccatgg catcacagcc agatccagca ccatcagtta aagagcaaag 420
caaggaattt gttagtacac cagtgtcaac ttcccatata ttcacataag cattgtcagg 480
gc 482

<210> 3726
<211> 299
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057f09a1

<400> 3726
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gaagatgggt aaggaaaagg ttcacatcag tattgtggcc attggccatg tçgactctgg 120
gacatccact accactggtc acctgattta caagcttga ggcattgacc agcgtgttat 180
tgcgagggtt gataacgaag ctgatgagat gaacaagagg tctttcaagt atgcctgggt 240
gctggacata cttaaagctg atcgtgcaag tggaatcacc atcgttagtg gcttgtgga 299

<210> 3727
<211> 404
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057f09d1

<400> 3727
ggaggggaatg tgcattgttac tagcatttct ctttatccat atacaatata ataaccctgc 60
tgctgatgaa tttgatgacc ataacacagt gacaaataag atcataagat gcaatgattt 120
ttgatataca ggacaataaa agaagcaatg cattaaagct gaaagtagag tgtatgttca 180
tcttcaaagg agtgtaaaag agggtaatat atattttaca gaatttccga aagagcagaa 240
aaaaggaagt aaagacaaga atgacttgtg actcaaatcc tggaagggat cataggaata 300
gtgtcctgta agtatgcact ggcagcagca actccacttc caagctttac aggatagccc 360

acatctttca gtatcatctt cacaccagct agacatccca acag

404

<210> 3728
<211> 184
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057f10a1

<400> 3728

gatgcatcat attgcattct ctatattgag cacggtgaat atgattgacc actgggcatc 60
tatagttact gcatgctgca tcatattggg gtgacggccg aaaactctgt gttaccaaag 120
gcgccgctgg cccgataatg atgaaatgca cgacctgctt caggacatgg tatcatacaa 180
tgag 184

<210> 3729
<211> 404
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057f10d1

<400> 3729

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tgctgatgaa tttgatgacc ataacacagt gacaaataag atcataagat gcaatgattt 120
ttgatataca ggacaataaa tgaagcaatg cattaaagct gaaagtagag tgtatgttca 180
tcttcaaagg agtggttaaag agggtaatat atattgtaca gaatttgca aagagcctaa 240
tataggaagt taagacgaga atgacttgatg actccatcct gtaagggatc ataggaatag 300
tgtcctgtaa gtatgcaatg gcagcagcaa ctgcactttc aagctaacag gatagcccac 360
atctttttaga atcatctcca caccagcttg acttcccaac agtt 404

<210> 3730
<211> 365
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057f11a1

<400> 3730

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 cggaattgtc tgatgaagg atctccgagc ttgagagtga aaaccttatg ccacagttgg 120
 cgctagagtg tctggtagaa caactccaaa gttcaatatg gggattcatt gatttcttgc 180
 agctcttcag attgatccag gttggggggc atggcaaagg gatccagcca gaggaaatgc 240
 ctatatcgca tattctcaat aatatctgag ggctcgaaag gctctcttgg gaaaacccaa 300
 gaggagaagc tgccgctacc tgggtgagaat tctatccttc taactggacc ttttgcacaa 360
 gaatc 365

<210> 3731
 <211> 273
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220057f12a1
 <400> 3731

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 gggtttgtgt accacattcc ataacataac cttgttgtcc tcaaattcca gtcgttggat 120
 tcgtactaca aggcgaaaat ggtagggttt agaaaaacac cagcaccaac tgaatcagat 180
 aagaagacaa cccttactgc acaataaaga actgcttcag aacctggact gacagcttca 240
 aaatgtaacg gaaactatct ggagtacgat gac 273

<210> 3732
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220057g01a1
 <400> 3732

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 catgggtttg gagtttatac ttggagtgat ggaggatgct atgttgggac ttggacattt 120
 ggtctaaaag atggcaaagg aaccttttac ccgagaggta gccgtcttcc ttgggtgcaa 180
 gaaatttacc tcagtgcctt gagaaaaaga gggttgctgc cagatttgag aaaacagaaa 240
 caggtgagag atgtcaaggt accagagaac catatgtcaa gtcatgtttc atctgataag 300

tttgcaaaaag gaaacctggt aaatctggaa gagtctaata gaagaaatgt ctctctcgaa 360
 aggcgttgga gtcttgaggt gtctattgag aagggtgattg gggatgattc agcattaaga 420
 tttgcagaat ctgtaccaga aagtagagat ggagaagttg atgcaatgat cccaattttg 480
 gaacgagagt acatg 495

<210> 3733
 <211> 384
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057g01d1

<400> 3733

aacaaaggaa ttttaataatc atttggaana acctgtcttg aagggtgtaca ttattacatg 60
 aggagtgcc aacagagcatg agctgaatat tgcattcaaa gcaactgcgt ctagatacct 120
 gaatgcatat ctctagattc agtaccacgg ctagctatga taagctgcgc ctgcacaggt 180
 aatatatgaa tatgattagc taagcctcgc tagagcctta taggtatcgt attatgggaa 240
 caggtacaca actgtgcgat ttggacgtgt gcagctatga tgatcgagct gactgattgt 300
 aaacactgtc tgggcgcatt cacatgttag tcaaccagtt agcacgcctc ctcaccctct 360
 gcatgccagt tgctatcttc tagc 384

<210> 3734
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057g02a1

<400> 3734

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 atctgtggcc ctcaaacctg cccctttcac tgttgagaag tcttcagtta gaggccttcc 120
 ctccctctca aggaactcct cttcattcag agttgtggcc agtgggtggca agaagatcaa 180
 gactgacaag ccttatggaa ttaatgggtg catggccttg aggggaaggag ttgatgcac 240
 tggcaggaaa ggaaagggaa agggcggtta ccagtttgta gacaaatagc gtgctaattg 300
 cgatgggttac agtcctatct acgacaccaa ggactgggtct ccaaccggtg atgtctacgc 360

tggcggtacg actggcttgg ctatctgggc tgtgactcta cttggtcttc ttgctggtgg 420
 tgcacttctt gtctacaaca caagtgcttt ggcgcaataa actttgcaaa tcgatgtttt 480

<210> 3735
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057g02d1

<400> 3735

aacaaaaaat acaatcttca ttctattagc ttaagcatcg gcatctacaa tcatacatatc 60
 tgctgctagt caatctcgca ttcagtatca gatatcttgg tatatatgta gtaccatttt 120
 caatacaact gattatgcaa attactcggg gacaaaattgt atgggaataa aaatggaaaa 180
 gcctaccaat ttggagagat gcctattgcc tatatattaa gatataatat gtcacaatgt 240
 catgcagata gatccgatta tgcaaaagaa atattcgcac gtgattctac ccaacagttg 300
 catcactatc ttacaagttc ccaggcctct ttagacatgt cataaattac aacacagcca 360
 ttctcaaaca tgatcgaacg tgttcgggca tattcatcac atcgctcaat agttccaaac 420
 ctgtcatttc caagtacgtg tatectaata ac 452

<210> 3736
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057g03a1

<400> 3736

aagattgcct caataaagat gttaccagtc aacatatgat gaaaatgaat gttaagcatg 60
 aagaagccta tgctcaactt ccatctggtg atgacctctt cgatgtttta ggtatggatt 120
 tgaaaaggag actactcaat gggagctgga ataagttgct tgccacagat tcagatgaca 180
 acacagaaca tctagataaa aaggcaacat gcatgaattt gcaaggtgta ggtcctgata 240
 atagttattc agttaatgaa gcaatatcag aaagtggcat cttctctgga acaggcacag 300
 accacctttt agatgctgtg gtttcaaaaag ctcaatcttc tgcaaaacag aattatgatg 360
 aaatgtcatg caggacaaca ttgacaagga ttagtacagc ctccattcct tctcctgtct 420

gcaagcaagt tatgcctgat catgttgctc caaggggatt gtttgatttt cctaagacc 479

<210> 3737

<211> 152

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057g03d1

<400> 3737

agcattagaa tgcaaacaca gtacataccc atggacactg acacactcag atatgactgc 60

acatgtaaca aaaaatcaat atatatacta cgatagcaat caatttatcg gggcctgtaa 120

acgtgaaggg gctagaaagg gcgatcatca ta 152

<210> 3738

<211> 144

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057g04a1

<400> 3738

ctatacgtca agtgcaccag cttcgcatga aagtgcaggt gatgatgatg gagctattag 60

tgtgaacatt gagagagatg ctagtttgag tggacaaagt gacgagatgt cttctggggg 120

aggcttgact gcagatgcgg caga 144

<210> 3739

<211> 200

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057g04d1

<400> 3739

agggaaaaaa gcgcaaaact agaacatgtg agattgctaa agccaaatag accttgatac 60

tactagcctt atacgacgta attacataga ctgtgcagtt ccaagagcta gatttagctg 120

aaccaggact tcattacgta ggacccctgc atatectact acctgacctt taacattgac 180

ctgtaagtta taatgaaaag 200

<210> 3740
<211> 323
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057g05a1

<400> 3740

tattcattca ccgattaaga tggagaagag atcagcatgc ctgacgctga aacttgcgctc 60
catcacacca tgggggtgcag atctgcagga gaggccttgac gagcgaatgg cgctaccaga 120
ggatgtggag acgcacatag acaagcatag aggcgagatt ctgggactcc attctgtgag 180
taatgctttg agcagcacag cgtgtgagga tgaacatgac ttgtgcctta aaagacttaa 240
tgaatatcaa acgcagttcc gaacacttga tatggaaacg actgatcgcg ttcagaaggc 300
cttgcatcgc gtgaatgagg tgc 323

<210> 3741
<211> 224
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057g05d1

<400> 3741

gatagaagag tgcacgcat aaacttgcac gattatcctc tgagatgcct acccgagctt 60
gctatggaac atacacagca tcccaactgg ctactcgatc ggatgcattc ccaaaaggac 120
aagcacttct gaaccagcga acatatacgc cagatatgcc tgcaaatatg acagctgggc 180
cacactatct agggcggcct ctatctgaac ctcatgggat gcaa 224

<210> 3742
<211> 327
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057g06a1

<400> 3742

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aaatccgcaa cgctcagcgt tcccatggac ccgccaccat cttggccttc ggcaccgcca 120
cgccgtccaa ctgcgtctcc caagccgatt accctgacta ctacttgccg attatcaaca 180

gcgaacacat gactgatctc aaagaaaagt tcacgcgcat gtgtgaaaag cccatgataa 240
agaagcgatc catgcacctg acggaggagt ttctgaaaga gaacccgaac atgtgcgagt 300
acatggcgcc atcgctggac gtgagac 327

<210> 3743
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057g06d1

<400> 3743

aaggtaaatt tgtcacattht attcattatc atatatgcat cacctagtat cagctggtht 60
attcttaatt aagagaaaac taaaatacaa tatcttacat gctatthttg ccggacttga 120
attagaataa tttcacctcg ataactthca aaatccttht atgcaaatta ccgaaataaa 180
actctagtht tagthtcaaac aacacctagc tataataatt aggggthtgat accatagagc 240
thtctgaatcc cgtctatatc atcttgcgct agattcacct tcttagthtcg aggtgggtata 300
gaaggataca tgatggctct taggtccgac gagtggccta atccgagcaa gtgcccgatc 360
tcgtgcactg ccacagatthc aaggthcaaac gcactthgtca ccggcgattht ggtgacatcg 420
ccagacgcca cccaatattc gtcggcgthca aagtggcacc tcccatcagt ggg 473

<210> 3744
<211> 188
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057g07a1

<400> 3744

cttctctcaa attcagthtgct tagattacca tcgctatacg acgtaggact tctaggcaag 60
attagcacgg agccactagt aagccatggt gggacctatg agcgtgatat ccagatgtca 120
gagcattgtht acattacata actgaccatt thcgtactact tctgaagaag aagggatgcc 180
ggcagata 188

<210> 3745
<211> 545

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057g07d1

 <400> 3745

 tctttttttt tttttttttt tttttttttt tttttttttt tttttacatt agtaaacaaa 60
 tttattgcat agaaagatac ctgcgtgtat ggaaaaaaat tcaatttttg ttaagttgaa 120
 gggaaatata caaatacatg tcttattctt ttaaataatc catatttgta gcaatgaaat 180
 aaattcctcc ccaaaataaa aaatgattgg gattaccaat atctatgata catattcact 240
 attaaggacc agaaatgcct tgcttacgta tcattaaaaa gggcattaac ataaataaccg 300
 cagtaagaag aggtaattca aaagtttgca aactataaaa acgagttaag gtagattgtc 360
 ccacactgga acttccgcgt aataacttta ccaaagacga tcctattaca ggaatagcgt 420
 cgggtacgcc tgttacaatt ttgactgccc aataaccaat ttgatcccaa ggtaaggaat 480
 aaccggttac accaaaagat gcagtcaata cagccaaaac ttcacccgta acccaagtta 540
 atttc 545

<210> 3746
 <211> 234
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057g08a1

 <400> 3746

 gcaagcttgg cacttgccga gaatggatac ccacctgtac actcttgagt acatgaactg 60
 atgggtcatc ctacaagctg tgtgatcaga tatctgatgc agtgcttgat gcctgactgg 120
 agcaaagacc ctgaaagcaa gggtgcctgt gagacatgca ccaagaccaa cttgggtcatg 180
 gtatttggag agatcaccac aaaaggcaat atagactatg agaagattga gcgc 234

<210> 3747
 <211> 517
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220057g08d1

 <400> 3747

tgactgctcg gtggccgccc tttttttttt ttttttcac caaaagcatt tttgcagatt 60
 cttttccttt ccttcaacag aaaaatagag gatgtattta ttacaagtag ccatatatta 120
 acaaattcct taagtaacat agtatctctt catgaatggg tccatgctga aataatcatg 180
 gaagaacatc tgaagaggta tagaagagtc tgtcaaatct tcaggaacaa gtttcaatga 240
 gcttttttagc cttgaaagga cccaacattg gatggaaata taaaaatgta atcaacatgt 300
 gtagacatct caaaggaaag gtatcagggc agaactaaga cccttgaaac aagaaatctg 360
 ctgaccacac agttcttcat ttcctttttc ctgaaccaag tgacaggagt tcaaagctcc 420
 tgagtgtatc atcacgacca cctcttggtg ctgaagcccg tgataaagat gttttggatt 480
 caaaaccagg ttgaagtctc tgagttggtg ataagtc 517

<210> 3748
 <211> 186
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220057g09a1
 <400> 3748

attgcatgca atttattact atccatagag cacgatgaag gcaatggacc gagtgtcacc 60
 ctgtgatacg gcatacggga acccttcac tgaatgccat attaccctct gatacttttg 120
 agctccacat catcgagcag aacaattcac actgatcttg aggaaagcgt catctcattt 180
 tgatca 186

<210> 3749
 <211> 505
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220057g09d1
 <400> 3749

acatatataa ctaaagaatc ttgttttggt ctattatttg ttattttata atattcta 60
 gaatctttat tttccttttt attattagtt attagaatat tttttattat tagaaagaat 120
 aaatagaatt ggcaaaaatg aaaaaaaaaa tcaatgaaat caaaattatc gcgggcgaat 180

atttactctt ttattatcaa tcaaattcag atgtaatgta gggcacaact cctaaaaaaa 240
ggattgcttt ttggtttctt ccgccatccc acctaagaa tcattaagat tcgtttttaa 300
taaaatctta agtatttgca ggtttcgtcg tcccatcac ttctcgatta atggtttaggt 360
ctgaattcga caatggagcc tttctcatat cttaaaatta ataatctttt tttttttcga 420
atattgattt gatttttcgt gaatcaatat tctcagtttt tattgattca gagctcttaa 480
tttggttacg ttatanatta attca 505

<210> 3750
<211> 185
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057g10a1

<400> 3750

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acgattaagg ggaactcggg gacaatgcga aagactgtgt tggatattaa ctgcattacc 120
agtgttaagg gtgtcacagg atcctggatt tacataattg actgtgtcat tgtcaccagt 180
tctgc 185

<210> 3751
<211> 507
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057g10d1

<400> 3751

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cagctattat tgaagatttt taagcaacac tgaaagaact tgctgcactc tccacaaatc 120
ttcttgctcc cttgaaccac ctcttgcttc cagcttgagc cttgcaaag aacagttttc 180
catcttttac agttgtctta attatgtggt gcttgccacc ttcactctca tcagcagtc 240
ttgtcaacac agacagaaaa tagtacggct tcccatcaat cacaggtgtt gccgtctcta 300
agatgttagc cgtggccacc gcatttggat caaaaccacc ctcggttgtt gtttcgccga 360
agaaggcctg ttttcctagt aaataatcca ccttagagag gaactcttcg ggtgaaccat 420

agtcagtgat agacttctta tcagtcggag tgatgggtgac aaccacgttg gtggttgga 480
tcaaagtatc ctcatatcta acaacct 507

<210> 3752
<211> 357
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057g11a1

<400> 3752

ggttgattta cattggaaat caaagatgcc aagttccgac atgccttcca aaactctaaa 60
actctctctc tccgacaaca agtccttacc ctctttgcaa ctacccttcc gcaccacaga 120
tatctctcac gccgcacctt ctgtttgcgc cacttacgac tactatctcc gtcttctca 180
actcagaaag ctttggaaact cctcagattt tcctaattgg aacaacgaac caatcttaaa 240
acctatcttg caagctctcg aaatcacctt ccgctttctc tccattgggc tcttcgatcc 300
aagaccttac tccaaccaca gagaatggac tcgcaggata gagtctctta tcacaca 357

<210> 3753
<211> 385
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220057g11d1

<400> 3753

atctaacaca tattcataaa caaaataagc tacaatgagg atgcagcaag ttacaaagaa 60
aattgaacat cagcagacaa aatcaagagg agaggaaagc aaaacagacc tcaaggatcc 120
gcgtcaaata tcttacattc tatacathtt ttgtgatttt taggtacaag aatcctccac 180
cttaccactt cagtggtgg catcatcttc atttcaaata actagccttt gtcattcttc 240
cacttattat ctccattgat tgtttgcttc ttcatttcgt agtcttccat ttctatggaa 300
gcataattag gctatgatat catctcagtt tctatthttca tcacagcacc cacaaataaa 360
tgatgggggc aacaagttac tcagc 385

<210> 3754
<211> 385
<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220057g12a1
 <400> 3754

gagataacta gaaacagtgt gatgaaaatg aaggtccttg ttttcttcgt tgctacaatt 60
 ttggtagcat ggcaatgcc a tgcgtacgat atgttccttc tccgaatgaa cactggctat 120
 ggtgcccgt a ctccggaggt gaaatgcgca agttggaggc ttgctgtgga agcacacaac 180
 atctttggct atgagaccat tcttgaagag tgcgttcag caacaaagga atacatccat 240
 ggccaacaat atagatcaga ctcccaaaca gttaaccac caagcttact tttatgccag 300
 agacctcgaa gtccatccca aggacacatc tgtgctcagt atagatggca ccgtactctc 360
 taatattcca tactacaaaa accat 385

<210> 3755
 <211> 242
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057g12d1
 <400> 3755

gcaattgaaa ttcaaccttc tatgcaaata ttatcacaac cttcaaaaga ggatcaaacg 60
 agtcaaaatt aagaagttga attcaacaag catttgttaa agcacctatc acaaatcagc 120
 cagttcaaag tcaaatttga agccagatgc tcttttgaat gataagctcc aatctttaag 180
 gggctctcgcg aagatcacca tgggtctcta ggacgaccat ttgcgcttac aggaagaatg 240
 ac 242

<210> 3756
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057h01a1
 <400> 3756

aaacaaaaga aatcacaatc tgtggcttca ttatccttgg gtgcaccatc tcttgcggtt 60
 catccatcta tgcaaccatc atcatccgca ttgaagcatg gacctccatc aggaactaag 120

accaaaaagc aaaaatcatt cccttctaca ggacttaca gccaaagcca ggtcactaat 180
 caggggggtt cttcaggtgc ctttgcaaca aaaggacctg ctgaagcagc ttcttatgat 240
 ccctggattg gaaggaaagt ttggacaagg tggcctgaag acaaccactt ctatgaagct 300
 gttataacgg attataatgc tgctgagga ctacatgctt tggtttatga tatgaattca 360
 gcaaatgaaa catgggagtg ggttaatctt aaagagatat ctccagaaga tattcttttg 420
 gagggatgaag atcctggaat atcccataaa ggatgccagc cgggtccagg tagaggattg 480
 aagaagtcta tgcctcacg 499

<210> 3757
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057h01d1
 <400> 3757

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 aacactggct ctttgaaaaa ctgagaggat gcaattccta ctgattgcaa agaaattgac 120
 gcagtaattt tgataataaa aaccaatctg ttattgtaca cccatattat tgccacattt 180
 aagactagcc cgtctttata tccttaatgc tctcttattg ccaaaatcac aatatgtaat 240
 caagttcaag ccgcaacttt cttggatgtg actgaattga caatggtagc aaactcagga 300
 ccctttaatg aagcacctcc aacgagaaat ccatcaatat cttcttgctt tgctagctca 360
 gcactgttcc ctccatttac agaccctcca taaataattc gcgtttttaga tgcaacttca 420
 tcagggacat tcttttttag ccaatctcga acagctacat gtacttctg agcttgctgg 480
 ggag 484

<210> 3758
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057h02a1
 <400> 3758

gagagagaga gaggcacttg gaatccaaaa atgagagaaa tcatcagcat tcacataggt 60

caggccggga tccaggttgg caactcctgc tgggaactct actgcctgga acatggcatc 120
cagcccgatg gcatgatgcc caagtgactc ctcttcggt gtagccacg acgccttcaa 180
caccttcttc agcgaaaccg gatccggcaa gcacgtccct cgcgccgtct tcgtcgatct 240
cgagcccacc gtcacgacg aagtccgttg tggcacttac cgtcaactct tccaccccgga 300
acaactcatc tccggcaagg aagatgccgc caacaacttt gccagaggcc actacaccgt 360
tggcaaagag atcgtagatc tgtgcttggga tcgcgtccga aagctcgag acaactgcac 420
tggtctccag ggcttctcgc tcttcaacgc tgcggcggg gccaccggtt ccggtctcgg 480
atc 483

<210> 3759
<211> 323
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220057h02d1
<400> 3759

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cgaacaaacg agtgattaca ccggggggcat atcctgcggg agaagacgat tttcagaaca 120
acgggcaata tcctgtggga cacactaagc tggcatacga ggattaccag caaggtaaaa 180
cacttgagaa attccaaga gattatcaaa aactgaaaac tgtttgggat cggcaatata 240
gaaactcatc agccgtggag tgagatttgg ccactagaac tcccctgctg ggaccattaa 300
tgcgaccaca taccgatt ggg 323

<210> 3760
<211> 482
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220057h03a1
<400> 3760

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agaagaaatt gtctagcatg gttgaagatt ggatttctcg agcaaagca acgcaacgctc 120
gtggtagagc tggacgttgt aaaacctgga atttggtttt ccttgtagac tcgtcataga 180

tttgaaaagc tcatgcgccc atatcagggtt cccggagatgc ttcggatgcc attagttgaa 240
 ttgtgtttgc agattaagtt actgtctctt ggatatatca agccattttt gtcagaggca 300
 ttagaacctc ccaaggttga agcaatggat tccggcaatat ctttactgta tgaggttggt 360
 gctcttgaag gggatgagga gttgacacca cttggggcatc atctggcaaa acttcctgtg 420
 gatgtgttaa ttgggaagat gatgctgtat ggtgcaatgt ttgggtgttt gtctccaatt 480
 ct 482

<210> 3761
 <211> 216
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057h03d1

<400> 3761

attcatagat tggaggcata ttgcattgaa aaggggaaaa aaaggaaagg gccctaaata 60
 ccagacatac ttcactttgg gagatggata aaaaacatct acaattaaat atacttacia 120
 atgaaatata aattattgtc ccaactgaat caagtgcacg aattacaaaa atggatacac 180
 aagaacttta aatttagaga accaaaaacg tgacta 216

<210> 3762
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220057h04a1

<400> 3762

gaacatcgac gctgagataa aggggtgaata attagcagct ccttctagtt ccggtgtcgg 60
 tgtgggtggt tgaatctggt gaaggatgtc aattgttcca atcaaccagg gtgatgccaa 120
 cggctccaac cccttcgctt cgtgggggtca attcgtggat tttcctctcc ctccttccat 180
 ctacggcttc ttaccgggtt tggaattccg attcggatcc ggatcatccg tgaacacacg 240
 tgccgactgg agggagactc ccagagcgca cgtgtggaag ctggcgctta ccggcttctc 300
 caacgaggac gtgctggttg agctccaaga cgagaggggtg ctccaagtca acgtggaaag 360
 cggctacttc gtcacgaggt tcaatgttcc cgacatcgga tacc 404

<210> 3763
<211> 326
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057h04d1

<400> 3763

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tagattaaat aaaacaaact ttgagcaaaa gacatccaat ataacctgac caaaaagttg 120
catctaccga acggatcact gccttaacct gagcttggaa cggtgcaaca taggtcatac 180
tatcccttac tatattgcta gatagtggat cctgcaagca ttccaagcga atactttagg 240
gaactaagtt aataaacttt gttacaatca ccaagaagca ttgccatggc acctctagct 300
catgcttcca tatgctcctg ctctat 326

<210> 3764
<211> 363
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057h05a1

<400> 3764

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cttcgtggcg gccgtgtgga ttcaatgcat cttcggcaac aactacactt tctcaaacta 120
ctccgacgcc ctcaaatccc tcatgcacct cactcagcta caactcaaca acctgtccgt 180
cggtaaagac gttggcaaag cctttgggct tctcgcgggc ctggccttct accgcttacc 240
cacttggggc attctcctca taggtccgt cgaaggccta attggctacg gaaccaatg 300
gctcgtagct cgccaaagaa ttcaaccct cccctactgg catatgtgtg cgtttctgtg 360
cat 363

<210> 3765
<211> 278
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057h05d1

<400> 3765

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ttaagatata tgcataacct agttgaacct ggatgctatg taattaagag aaacctgaac 120
tgcgctatgt cacatgctat atgtgacgtc ccagaattac cactaattta cctcgataac 180
tttcaaacta cgcaaagtgt aatgacggaa cggaaactct tatgataggc ccaacaacac 240
actggctggt ccaactgcgga ggcgatacca tagagctt 278

<210> 3766

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057h06a1

<400> 3766

cgcaagcaaa aagaaagaat ccagggcgag gagaaagatg gaggggaagg agcaggatgt 60
gtcgttggga gcgaacaagt tccccgagag acagccgatt gggacggcgg cgcagagcca 120
agacgacggc aaggactacc aggagccggc gccggcgccg ctggttgacc cgacggagtt 180
tacgtcatgg tcgttttaca gagcagggat agcagagttt gcgccactt ttctgtttct 240
ctacatcacc gtcttaaccg ttatgggagt cgccggggct aagtctaagt gtagtaccgt 300
tgggattcaa ggaatcgctt gggccttcgg tggcatgac ttcgccctcg tttactgcac 360
cgctggcatc tcagggggac acataaacc gccggtgaca tttgggctgt ttttggcgag 420
gaagttgtcg ttgcccaggc cgattttcta catcgtgatg caatgcttgg gtgctatttg 480
t 481

<210> 3767

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057h06d1

<400> 3767

gattccacga gctcactagc tcagtggctg cccttttttt tttttttttt tttttataat 60
aaagttttta taataatata aattgaccaa attagcagaa ataataccacc gcatacaggt 120

ggctaagggc atgcttagtt aaccatttaa aaatactttt ggtacacca agacaccaag 180
 cctcttggaa acaagattct aggacccttt aaatccaagc catgttttagc gggtaatctg 240
 ccacaaaatt agtctccagc aaactcttgc accaatacca gagtaacaat gagagggagg 300
 acaacttaca ttgaggatac tgcgagcttt caacaaataa actctacaaa atgcacagtt 360
 ccaaagtgag gactgatgta attcctatgc tgcgacaatg aatatggctt catttatggg 420
 catcgcatat atatttgcaa ctgttaattt tgaacagaaa aattctaagc caattatatc 480
 ctcatttctt catggatgcg cttataaact attagatgtc gttaattctt tga 533

<210> 3768
 <211> 412
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057h07a1

<400> 3768

agtgcaactg cgaatatctg taccggggccc ccccatgacg cgtacgtaat ctgctcgagc 60
 cccaattct tccccctaca cccaccacgc atatctctct attcctattt attagcacc 120
 ctcacattac cttgtgtcac caactacttt gactccttta ccataccatt acaataatta 180
 tcaaacctaa ccagtaaaaa tggcgaccgt ggaggaaatc cgcagcgctc agcgttccca 240
 tggaccgcgc accatcttgg ccttcagcac cgtcacgccg tacaactgcg tatcccaagc 300
 cgattaccct gactactact ttcgcattac caacagcgaa cacatgactg atctaaagag 360
 aagttcaagc gcatgtgtga aaagtccatg actaagaagc gaaacatgca cc 412

<210> 3769
 <211> 338
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057h07d1

<400> 3769

tgtcgttctt tttttatgac atttttttaa accagattaa gtgactactt gtacaaagta 60
 tagttacttt taaggaaaca gtaccccaaa gtctatgatt acgtacacaa tgtaaaagg 120
 tcacaaagta gaagttttat gtgcatacaa tacagaacac tataatacat aattttacat 180

cttcaaagcc acaaacctgg gctgacggtt cactaaaact ttcacacagc ctgcttgtga 240
 cttattccta agccctatta ccacatggat gttcaacaat tctcagtga taatcactgc 300
 agactcttgc acaagaggat gagtaacatg cacaaaat 338

<210> 3770
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057h08a1
 <400> 3770

tggaggcgaa atccgttccc ctatctgctt ttggagttgt tgctaaagag tgatggactc 60
 accgtccagc aatcaccacg cggtcgacgg agacgccaac gacgtcgata gatccttttc 120
 ccaccgagc gacgatgaag acggcaagcc ccaaccgatc accggggact gcgcctgtcc 180
 tggaaagata ttcataagggg gcttagcgag agaaacgacg attgacgaat tcatgaagca 240
 ctttgggtaca tacggctaga taacggattg cgtcgtcatg aaagaccgga agaccgggtca 300
 gccgcgtggc ttccggttca taacttacgc tgatccctgc gaggctgata cagtgattga 360
 ggacactcac attatcaat 379

<210> 3771
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220057h08d1
 <400> 3771

tagctcagtg gtcgcccttt tttttttttt ttatgacatt tttctaaacc agataaagtt 60
 actacttgct caaagaaaag aaactatgat ggatacagta cccgaaagta tatgattacg 120
 tacacattgt ataaggggtca caaattgaag ttataggtgc atactgtaca aaacacggta 180
 atacatatta tgacatcttc aaagccacga acctgggctg ggggctcact aaaactttca 240
 cacaacctgc ttgtgactta ttctaagcc ctattaccac aaggatgttc aacaattctc 300
 agacgcttca tctaataagg cctcttgac aagacgatga gcacatgca cagaatgctc 360
 aggttcactc atcacttctt tccaacact 389

<210> 3772
 <211> 525
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220057h09a1

 <400> 3772

 aattcacacc caaagagaaa agaaaaaaaa aacaacagtg gtacgtgatg ccaccgaagt 60
 tcgatccctc gcaggtggtg gacgtgttcg tccgagtcac cggcggcgag gtcggcgcg 120
 cgagttctct cgccccgaag atcgggtccct tgggactctc cccaaagaag atcggagagg 180
 atattgcgaa ggaaaccgcg aaggactgga agggcctccg cgtgacggtg aagctaaccg 240
 tgcagaaccg gcaggcgaag gtgacggtgg tgccatccgc cgtcgcgctg gtcacaaagg 300
 cgctgaagga acccgaaagg gacaggaaga agacgaagaa catcaagcac aatgggaaca 360
 tctccctcga cgacgtggtt gagatcgcta gggatgatgag cccgcgctcc atggcgaagg 420
 atcttagtgg gaccatcaag gagattctcg ggacttgtgt ttcggttggg tgcaccgtgg 480
 atgggaaggg accccaggat ctgcagcagg aaatttctga tggag 525

<210> 3773
 <211> 338
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220057h10a1

 <400> 3773

 agtcctgaaa cttgggtgcg attccttcac tcacaacaac aacacatcac tatggctctt 60
 ctgagtcgag cctcttcaag cttccctcag ctggtttccc ctcaaagggg agtttcactc 120
 cacacaacgc tcccatctct gaacgcatac ccatccacag ccacgcctac accatatgcc 180
 ccgccaccgc ctgcgtccgc ttactctccc gccggcggtt acaaggcggc ggagttcgag 240
 atctcgcagg cggacgatct gattaactgg gcccttcgag gtttcacatg gcccatgacc 300
 ttcggcctcg cctgctgcgc cgtcgaaatg atgcacac 338

<210> 3774
 <211> 142
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057h10d1

<400> 3774

gacaaattac aaagaatatc cacttttaaaa ctaaaagtgg gcccgagac ccgaaaaagc 60
ggctgaaaat aagacttaca gaaacggggc aaaagcttgg aacggacaca atctccactg 120
aacacgagtg catctgagca ag 142

<210> 3775

<211> 238

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057h11a1

<400> 3775

gtttagttat ctactctttt ctgcatgttt gttctctcaa cgactcctcc gcgaaagagt 60
attattcaat attctgggtg ggctgaatcc cggggttgaa gcgttgacaga catcacggct 120
gttctcagag tgtctcgctc cctcattcat gtccgatctg cacgactgac gacgggtgagt 180
tgcgtagactg accgtaaccc ttggccgtac ggcgggcgctg gtgctttgcc ttctgaat 238

<210> 3776

<211> 525

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057h12a1

<400> 3776

cgcccactct gccctagctt caatccctct agcttatttc ttagactgtg ggggcaccaa 60
agaggtaacg gtagacaatc tcacatacat tcctgatgaa agttacatca aggtgggcaa 120
aaccaccacc atcaacaagc cagacttggt gcccaatactc tcaacattgc gatactttcc 180
cgacacgtcg gctaaaaaat attgttattc attgcccgtc attaaaggca gcaaatacct 240
tgtgaagaca atgtactact atggagggtt tgatggaagg aataagcagc ctccggtgtt 300
tgatcaaadc attgaaggga caagatggag tggtgtgaac accacagacg attatgccaa 360
agtcttagtt cttactttga tattgtggtg gtgccatcgg agaagacttt gagtgtgtgc 420

ttggcaagga atgcacacac ggggtggcgca agcccccttct tttcggcctg gaggtgaaga 480
 ggttggatgc ttctttttat aatcctaccg actttaacaa atatg 525

<210> 3777
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220058a01a1

<400> 3777

tgtaaccgg ccaagattct ccgtaactac tacgagctat gacgtctcat gcagcctact 60
 ataagctggg cgtcctgctc gagttgagag aaagatgggc agacaggaac ctgaaactat 120
 gaacatttgc atcttgaaat tcttgattga cggtcacatg atgcctaccg aggccatgga 180
 ccccaaaata ccacaacgg tactgaaggt gactgttatt actacagtac ttaacatga 240
 cagtgatcta cagcgccatt ggagcatata catctaacgg acacgacctt cacgttcaag 300
 ccctagggaa tacttttact taggctggga cacatgatgg ctgtgattat tccgacactg 360
 cacattttct gaaattgttg aatatccaag agcctggcta ctgtataact ccacattctt 420
 gtgaacc 427

<210> 3778
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220058a01d1

<400> 3778

cattggttca agaacatcct aaagaaacac tagtaatatg tgtttatgga aattctggtg 60
 gtttaggcac cagtttatgt gactatgtgt ctatcttatg tttaaattaa aaaccatac 120
 cggtttagga tcatacttca cacataatat cagtttgact ttgtcaactt aaatagatat 180
 actacagggg acccccattc cagtcacacc tggctttgag aaaggtttca aaagctcgta 240
 cggtaaatg ccagctccat ttctgttctt caactttgtg ttccattcc tctcatcaat 300
 cagtgtttct agtttcttca gtctctctct aaatctttca aaggaagcct ttatgacagg 360
 atcttcaccc catgatgggt ccatcttttc tcctatgtat tcctcatctg gtgaatgagt 420

tgagagtatg gccaaagacag ccatgactct agttgcttga aattg

465

<210> 3779
<211> 425
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058a02a1

<400> 3779

tggtcgtgcg gatactgctt cagccggctt agcttaagct tactgatcag cttgacacga 60
tgcacatcta taaccagatg cttactcgag caatggcgta cacaagttat accgatgaca 120
aatagctgcc agagacagac tacagatcgc tggaagggat agatcggctt gtagaggcac 180
gcgtgcacga cctgagttgt ctgattcatt aggaagcact gacttgaag ctttagagat 240
tgaagagggc tctgctatga gtcacgggtc tgaaacccca tgttcaaggg ccagcacttc 300
tgattccgag agtcatggat cttttgctgg tgcacctaata accaataagc aatggcgggcg 360
tttctttaa ctgctcagga caggatcaca aaagcctttc caagcggttc acccgcttaa 420
aatg 425

<210> 3780
<211> 339
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058a02d1

<400> 3780

ggagatcatt ctttgatctt agacaggag atttcacttg agaaaaattc ctgaaaaaaa 60
gaaacattct aaccaactga aaacaaaaac accgagcaga caatggaggg agctacctac 120
attatcagac atgacggtca tcaccggaca tagaaagcca aaaaaaagaa acagggcggt 180
ggaaaaaatc ggaacaggat tagtggcatc acggccgcag tccctaaagc acacaacagg 240
ggaatcttca gaagggctag ttgaagtaag gctacacgca cctacaacca tggcatcaca 300
gccagaacca gcaccatcag ctaaagagca gagcaagga 339

<210> 3781
<211> 321
<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220058a03a1
 <400> 3781

aatgcaaaga gatggcctat ttttggcctt tgaagcttgg aacttctgca atgaagttgg 60
 tcaagaagct ccttacatgg gtagtccaag agctgctgat cgttttgatc tttcaggttc 120
 tctgactcac aaggtcacag aagctgataa cagacttggg gtgggggact catttactgg 180
 ttctatccag aaaatatcaa caccacagac ctttatgcaa ttgaaaagga atagtattgg 240
 ggttctatat agtgaagttg ctgacacccc atgcccttgg ccgttttgga tggatgatgct 300
 gaaccatggc cactattaca c 321

<210> 3782
 <211> 286
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058a04a1
 <400> 3782

gtgacaacca gcttgttcca tattatgctg tctttcttgg agccctttcg ccttgggcag 60
 ccgatgcaga agagaaactg agagttgccg ctaccgaaac caacgaagag ctacgtgccc 120
 ttaagggaga tccccccgat gcgaatgatg tccgagcagt cctgtccatt ggcaggcggc 180
 aactatctcg tgagttggag gctactccaa tcgaagcttt gcactggata tcccccttc 240
 ctaaacagtg gtcgcactgt gggaaggcaa caactgaatg acatat 286

<210> 3783
 <211> 279
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058a05a1
 <400> 3783

taggaggggg gcggcgactg tgtcgcgcgc tttagaggat gaaagattat aagggggatc 60
 tattctaccc ggtaacggcg atggactctt cctcctacga atactatcgc agtgcttcct 120
 ataccgacgc cgatattgtg ttgactgtga atgacagtca tategccgac aggatccttc 180

gacccgagat catgggggac ctgggcacgg ccacaccga ttactacggt tgccccacta 240
tcgacgactg ctactaccac cgcattgagga ggcgcgagg 279

<210> 3784
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220058a06a1

<400> 3784

gccaatctt actcctccac ccaccagca tatatggata tttctataaa ttagcacccc 60
tcacattacc ttgtgtcaac aactactttg actcctttac cataccatta ctaattatac 120
atcaaacnct aaccaacaaa aagatgggtga ccggaggagg ataatacga tacggtcagc 180
gataccatgg acccaccaac atcttggcct taggaaccgc cagccattg aactgtgttt 240
agcaagccga ataccgtgac tactactatc ggattaccaa aaacgaacac atg 293

<210> 3785
<211> 406
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058a07a1

<400> 3785

ctcattaatt gcaagaatgg cacttcgttg cttgggtgat tccctttctg ttctcttcac 60
tcttgggtctt gcgagagaaa gccatgccag agacgaagat ttttggcatg ctgtttggcc 120
aaacactccc attccaagtt cattgcgaga tcttctaaag cctggccctg caagtgttga 180
aatcgatgat caccctatgc aaattgaaga aacacagtac ccgaaaacct tcttgtataa 240
agaagacctt catccaggca aaacaatgaa agtacaattc agcaagcctg cctttcaaca 300
accatgggggt gttggtacat ggttaaagga aattaaagac actactaaag aaggatatag 360
ttctgaagag ctatgcatca agaaagacgc cattgagga gaagag 406

<210> 3786
<211> 399
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058a08a1

<400> 3786

agaaacactt cgagtcaggg agaaggggaat tggaacttat acggcttctt gaggatggcc 60
caggaacctt gatccaaatg gtctacagaa gaccacgatac atatgccaga gggcgagatg 120
cgcggtgtat ctctatgtga ggggaagatg gggaagactc tggatgagaag ctatgggccc 180
taacaactac tcctgactct gattgaagag ctgcacccgc ccgtgaatgt gatgctgaca 240
attcaccgct ctacttatgc aaagggggag cataccaact ctgtaattgc gtcttctttc 300
ggagtggcag cttcagctct atgtcctgat gtgaaagaca tcaactgtgga tgacgacctc 360
aagcagatac gtctaagggtg cagaggctag cttataagc 399

<210> 3787

<211> 416

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058a09a1

<400> 3787

gtcacactgg tgaaaaacttt tgctgtgata agaggatatt ggaacttact caatcaattc 60
tgtggatgat ccacaaacct tgaacagaat tgtctacatt agaccaccaa ctaatacctt 120
gtcgtttaac gagcattggg gctctctggg agggaaagac tggacaaaaca tctgcaagaa 180
gctatggtcc agaagaacga ctctgaagc aaattggata gtccgcacca cccgtgaatg 240
agatcctgtc aattaacctc tcttgttatg tgaaggggga tcattctaac ttgagattg 300
aagcctgtta ttgcgtggaa gcgctgacta tatatcgtga tgcaaaatac atgactgggg 360
atgcgctccc taatcagtgc gtctaactgc caaagcctac ctgatcggtt tgatta 416

<210> 3788

<211> 301

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058a10a1

<400> 3788

gatttacatg agacaccttt cactacaact gttgctctac actatgcaac cttttttcct 60

ctgcattggg acccctgcc a gctacccctg tctataaatc tgactttgac tggcccatgg 120
agccagctag agcctacaga tggaatctga cagcacatgc tgctaggcct aaccacaat 180
ggtcattcca ttataggatg actactactg cgtcagtagg gatggtggcc acgacagcac 240
ctttgatgaa tgggaaggtc ccatctgtct gtaacagtga ctccatgct caccctgaca 300
c 301

<210> 3789
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058a11a1

<400> 3789

gatttacaga gacacctctc actacaactg ctgtactaca ctatgcaact ctttttcctc 60
tgcattggga cccgtgcctg ctccccctgt tgataaatat gactttgact ggtccatgaa 120
gcaagctata accctacaga tggaatctga cagcaaatgc tgctaggcct aaccacaag 180
ggtcattcca ttatgggaag attactccta caaaagtaat taagttggcc aattcagcac 240
ctttgatcaa tggaaagctc cgttatgctg ttaacagtgt ctccatggtt aaccctgaca 300
cccctctcaa gcttgctgat tacttcaaca ttcccgaat cttcagtgtg aatttactcc 360
aaaactctcc ctcaaattgg ccaggatata taggcacctc agtggttcaa acttctctcc 420
atgattttat tgaggttatt ttccagaaca acgaaaacac cattgcatct tggcatcttg 480
atgggtatg 489

<210> 3790
<211> 440
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058b01a1

<400> 3790

aattagagga attagatgat aacctcaa ataatgcacaa agatatacca gcccaagtgg 60
atgcctatga cacatcacat gtgaggttga accactatac ttctaaatat catgaagagg 120
gtgtcacaaa gcagaggtca ctgaacgata attagacgtc acatactgga ggcattgtga 180

gaaagcgctt tgatatgatt gatagtgtgg ctacgttgcg tgaacagaac atgactatga 240
ctcatgatga agaagagctc ggatgaatcc tagatactat ggatcacgtc attaccgatc 300
tgatggacga aggcatacaa ctcaaggga tacgagaata ctttagcttg atcacgactg 360
aatggcatga gcttacttat gattcacagg tatgagcggc catattggga gctgcgcaat 420
gagttgtaga tgggccattg 440

<210> 3791
<211> 449
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058b01d1

<400> 3791
agaaagtatc atgcttgatt actgattgat ggacagtcta aataacaatg taaaaccatc 60
gtagttcctc tgtacatgaa aatagacgga tcataacaat catgccc aaa tcacttctaa 120
aaattcatcc attcaggatt acacgagaag gacacaggct tatccatgtc attggataca 180
aacttagtag ccacgaattg tattgatgat ggtgtgtgtc cacgggtcag agaggtgctg 240
caatagggtc tcaaattggc ctttgccctgt cacgttgtgt tgaactatga atcccaagaa 300
tgccaacata gccaatctcc cattggcaag ttccttctcc ttggcctcca aagtaggtgc 360
aaagttcaag ggggttaaaca cactaccagg gtatccacac tcatgttggg gcaagctgta 420
ttgcttgaag atgggggtctt ggttgacag 449

<210> 3792
<211> 254
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058b02a1

<400> 3792
ctcgagccga atcgggtcga gcattcttat aggctaatta acatacactc tcttccaaag 60
ttgagtactt tgccaaaaaa aaaaaaaagt tttccctttg agaaagaaaa cccaaagaca 120
gtcttttgat cattttgagc agttgcattc cttgatttct tccatttttg gtccccctcaa 180
aagtagtttc aaaagggttc ctcttctctc acagatatca tggcagatca taccgccggt 240

tcaggaaccc gttt

254

<210> 3793
<211> 404
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058b02d1

<400> 3793

attacgaggt ttcttttttt aacaaattcc ttaagtaaca tagtatctct tcatgaatgg 60
gtccatgctg aaataatcat ggaagaacat ctgaagaggt atagaagagt ctgtcaaadc 120
ttcaggaaca agtttcaatg agcttttttag ccttgaaagg acccaacatt ggatggaaat 180
atacaaatgt aatcaacatg tgtagacatc tcaaaggaaa ggtatcaggg cagaactaag 240
acccttgaaa caagaaatct gctgaccaca cagttcttca tttccttttt cctgaaccaa 300
gtgacaggag ttcaaagctc ctgagtgtat catcacgacc acctcttggt gctgaagccc 360
gtgataaaga tgttccggat tcaaaaccag gttgaagtct ctga 404

<210> 3794
<211> 511
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220058b03a1

<400> 3794

cgaaacgaca gcatgtggtg gccgttcagc agaaaagaga aagaggggtc tggattttca 60
tcttcttcca ctgccgagga agttactgaa ggaatcgatg gcactgccct cactgctatt 120
gttacagggg catctagtgg tattggtgct gagactaccc gtgttcttgc tatgcgtggg 180
gtccatgtaa ttatgggggt gaaaaatatg aatgctgcaa aaaatataaa agaaacaata 240
cttaaaggga ttccctcagc taaagttgat gctatggagt tagaccttag ttcaatgaca 300
tctgctcgaa aatttgcac agagttcatt tcttctagtc ttccactaaa cattttgata 360
aacaatgcag gaatttgtgg aacccttttc atgctgtctg aagataacat cgaactacaa 420
tttgccacaa atcatatagg tcattttctt ttaacagatc tgttattgga tactatgaag 480

aacnacacac atgaaagtaa gaaacaggga a

511

<210> 3795

<211> 257

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058b04a1

<400> 3795

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ttccagaatg cagaaagatt gtttattggt acgtccattg tacaccttgg aactgcgagg 120

ctcatggagg ggtgtttata aacactagta acctgggggtg cccaaaaaca tctgaacgat 180

tactggcatc agggaccctg actcacaagg gcacagaaac tgaacacaga ccttgggtgg 240

gggactcatt tactggt 257

<210> 3796

<211> 396

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058b05a1

<400> 3796

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cgctttttct gcatttctag actagacgtt ctaccggaga agcgacctta gaaattcatt 120

atgggtggcaa cagctgctac ttcattcatt ttgcctgtta cttcaccctc gccggactct 180

ggtggagcag gcagcaaact tgggtggtggg cctgcaaacc ttggaggact aaaatccaaa 240

tctgctctt ctggtggctt gaaggcaaag gcgcatgccc cttcgaaaat taatggaacc 300

acagttgtta catctaaaga aagcttcacg catgatgatg atctacctct gcctcccccc 360

agaactttta tcaaccagtt gcctgactgg agcatg 396

<210> 3797

<211> 410

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058b06a1

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aatcgaattc ttaattttat cagatgatgc gacttcacaa actgtatcat cgcttcactc 120

ttgtcccccct ttcgctccct tctaatacct ctcttcttcc tctcgctcct ccgttgcgcc 180

tcacgctcgg tcaccgaacc tgtgtgaact tcgcttccat ggcttcctcg cggctgcgca 240

atttatcacc tctcgctgct gcgccactg aagacgccga cgctgcctcc atttcttgct 300

ctcccaacgc cgttgcttcc gttgactacg atgatgagtc aactgtagga gtaaaggatc 360

gcgttctctc atctgtgatc agtgatcttg ttgatgctcc acctgtacct 410

<210> 3798

<211> 423

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058b07a1

<400> 3798

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atctgagaag aagcattggc cagaggtggt cagctttttc cttctacgca tgactgcaag 120

gggcagcgac ccataaggg gtcgtctttg gccacaaatg gccttggcat tggccattgc 180

tttcatttct tccactgtgg ttcccgtaa tgctgatgga tatecttact attctcctcc 240

accaccttat gaatacaagt caccaccttc tcctccttac gtgtacaagt gtccaccacc 300

tccaccatat gagcacaagg atccaccata ctattacaac tcaccaccac cttectatta 360

ctataaatgt actacaccac catacgctc tccttcttcc cctactact accactcccc 420

acc 423

<210> 3799

<211> 235

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058b08a1

<400> 3799

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catgcctttc tagcgaaaaa tggactgctc catctactgg ctggcgcttc gaatggcgag 120
 aggcataatt tcttggtaac gataaccaca tggttcaact gtaacgcaca catgtggtcg 180
 gtactccttg ttgagcgtgg ccctgggtctt ggttttagagt gtcaccatcc accta 235

<210> 3800
 <211> 527
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220058b09a1

<400> 3800

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 cttaacaccc ccaaacagaa caacggcaga gcaagcagcc agaaaaatgg tgttgctgtc 180
 caaagcaaca acagaacaat actcctacat caagaactac atgccaaactg cattctcctc 240
 aacaattccc atagtggacc tctccaaacc cgatgcaaag accctcatag tgaaggcttg 300
 tgaggagttt ggattcttca aagtcacaa ccatgggtgt gccattgaa gctatatccc 360
 aattggaatc cgaagccttc aagttcttct ctatgccact caatgagaag gaaaaagcag 420
 ggctcccaa accatctggg tgtggtagca agaaaattgg acacactggg gatgttggtat 480
 gggttgagta ccttcttctc acaccaatca agacacaact tctcttt 527

<210> 3801
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220058b10a1

<400> 3801

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 cccacaacat caccgcgatg cttgccaaac acccgggctt ctccacctat aaccactatc 120
 tctccctcac ccacctngcc gaagagatca accgcccaga gaccatcacc gtcctggccc 180
 tcgacaatgc cgccatgtgc tcctcctggg acaagcacct ctccctcccc accatcaaaa 240
 acgtcctctc cctccacgtg ctcgctgact acttcggggc caaaaagctc caccagatca 300

acaacagcac caccctggtg tgctccatgt accaggccac cggctcagac tccggcaccg 360
 ccggctacgt caacatcacc aacctcaagg ccggccaggt cggcttcgac gacgaagaca 420
 acgacggctc cctccactcc ttctacgtca aatacgtcca ggaaatgccc tactaca 477

<210> 3802
 <211> 359
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220058c01a1

<400> 3802

aaaccaaaa agccataaga aagaatggat gggatgctta tgagcatatc tacacctaaa 60
 gggacagcct caaaaactgac accatatggg attatgttac cgatgctgta cctcacgcgt 120
 taatgctctg tcacaggcaa ctgacgaact cccaacccaa agtaggccac gatactcact 180
 ggcttatcta ctctcactcc catggctcta atacacatca tctctctacc cataatatca 240
 catggtgatc ctgaaactcc actacattca cgctgcctct tacgacacaa cgatggaaca 300
 ggtttgacac gcaaggttcc acgacttagc ctagaatgtc ataggcgaaa tcgaactct 359

<210> 3803
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220058c01d1

<400> 3803

aatggcggaa caatacaaca ttttttttac acagcaaagc tatggtcaaa caggaagttt 60
 ggtatctttt gctttccacg agaatttgat atcaaatatt ttaatgaacg gcgtgtaacc 120
 aaaacagaga aaacagagca ctctttttta taaacaaaca cagctttagt tcaatgaaaa 180
 acttttccag actcttgatg atgatggatg gatggtgcgg gtgtcgtgct ggtatacttt 240
 cttttactaa tcaacaagtt tgctgccttt gacatccact acaaacctgt atctcacatc 300
 gttcttctcc aacctttcaa aggctttgtt aatgtaatcc atgtttacca cttcaatcat 360
 cgaactcaga cccttctctt tcagaactc caacatctcc tctgtctcct tcatgtcccc 420
 aataaagctt cccgtgattg acctcctccc tagcatgacc atggggctaa caaattgaag 480

aggggtggtg atga

494

<210> 3804
<211> 213
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058c02a1

<400> 3804

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atcataatac tgggttatggc tcaccagcag agcagcttga gtttgggact ttgggaccaa 120
tggggttctc aggtgtcaat gagctgtcac aggcgaatga gggaactcaa tctactggag 180
cacatgaaga tcagaggcta tgtggtgggc aca 213

<210> 3805
<211> 396
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058c02d1

<400> 3805

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gaaattttgc ttcaacgcca tgaaattatt ggaaaaaaga gtctcccttt cttttctcac 120
ctttctggta tgcataatcc cctataatga ctaaaaaatt taacttattc tatgagaaca 180
tagtatgcct aatcagttgt ccaaggatcg ctctctgcaa tgacttcaga aggttcataa 240
acttctggct ctgaactttc ttcacttggt cttgaatcag cagcttcaac agaagcatct 300
gcctactatg cttctgatct accccatctt cctcccaagg ccaatgccat catttcgtaa 360
atcttatctc ctaactcagc agggctgtca ggagaa 396

<210> 3806
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058c03a1

<400> 3806

cgaaacgaca gcatgtggtg gccgttcagc agaaaagaga aagagggttc tggattttca 60
tcttcttcca ctgccgagga agttactgaa ggaatcgatg gcactgccct cactgctatt 120
gttacagggg catctagtgg tattggtgct gagactaccc gtgttcttgc tatgctggt 180
gtccatgtaa ttatgggggt gaaaaatatg aatgctgcaa aaaatataaa agaaacaata 240
cttaaaggga ttccctcagc taaagttgat gctatggagt tagacctag ttcaatgaca 300
tctgttcgaa aatttgcac agagttcatt tcttctagtc ttccactaaa cattttgata 360
aacaatgcag gaatttttgg aaccctttc atgctgtctg aagataacat cgaactacaa 420
tttgccacaa atcatatagg tcattttctt taacaaatct g 461

<210> 3807
<211> 483
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058c04a1
<400> 3807

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gccggcggtg cccgtcacga tattctccgg ttacccttcg aagtttgcac ggactgtaaa 120
gcacctgcta atgccgatca aaacgatgag ggcaccacga gggccgcttt agttgccggt 180
tccaatggct actggaatta caggcaccag tgtgaaggcc gtcatgcata tcaactactg 240
aggaaagggtg gtgagaaaga ggaaaatatt gatggcctat agcggaggac gttgctagca 300
atgaggagga cccacggcct gtagtctcta ttaacagtcc acacggaaat gatgttcaca 360
agggagtcc taaggattac gttggtgaag atgttactgc tgacaactct tttgctgcta 420
tacttggaat taagtcagct cttactggag gcaaggggaa ggttgtggat agtgtgcccc 480
aat 483

<210> 3808
<211> 499
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220058c05a1

<400> 3808

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atggtggcaa cagctgctac ttcattcattt ttccctgtta cttcacccctc gccggactct 180

ggtggagcag gcagcaaact tgggtggggg cctgcaaacc ttggaggact aaaatccaaa 240

tctgcgtctt ctggtggctt gaaggcaaag gcgcaagccc cttcgaaaat taatggaacc 300

acagttgtta catctaaaga aagcttcaag catgatgatg atctaccttc gcctcccccc 360

agaactttta tcaaccagtt gcctgattgg agcatgcttc ttgctgctat cacaacattn 420

ttcttggccg ctgaaaagca gtggatgatg cttgattgga agccacggcg acctgacatg 480

cttattgacc ccttgggat 499

<210> 3809

<211> 506

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058c06a1

<400> 3809

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gaagatcctt gtgtcgcata gagctagtta aaatgtctga gggaaatgca gggaaaggaa 120

agagaatcgc catcattggc gtctcagcct tattgttggg ggctatgggt gtggcaatca 180

cagttggggg caatctcaat gagaatgggt ccaacaatga tacagaggac aacaagaaaa 240

atcatgttgt ttcttctata aaagccgtcc aaaccctttg tcatcccaca aattataaga 300

aagaatgcga ggaaagcctt atagctgggg ctggaaatac cacagatcca aaagaactta 360

tcaaaatfff cttcaacatc accattacaa aaattgggtga taaactcaaa gaaactaata 420

ttttgcatga gggtgaggag gaaccagag ccaagatggc acttgaaaca tgcaagcaac 480

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<210> 3810

<211> 427

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220058c07a1

<400> 3810

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ccgatgcaga agagaaactt agagttgttg ctctgtgaaac caatgaagag ctacgtgcct 120
ctaaggcaga tccacctgaa gcgcgagatg taggagcact cctgtccatt gccaggagggc 180
aattatctag tgaattggag gctactctaa tcgaagcttt gcactggata tccacccttt 240
taaacaatta tcggactgag gtttggcagt aacagaatga catatttggc actctgctca 300
tggcactttc agatccatct gatgagggtg ctcttggagt tcttgatgtt catgcatgca 360
ttgcttacga ctctcagcac ttctgggcac gtgttgactt gatggtgcac agtttccggg 420
tagacaa 427

<210> 3811

<211> 380

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220058c08a1

<400> 3811

gacaaaaaaaa gtggatgtat ataaagccta tcacatgact ggtggtgagg gcctaactcg 60
cttatgtcta taactctcta ctacagacca tggaccttgc ataagctaca ctattatca 120
cccacacaga ggacgaccgc tgccttgga cccctacaaa gggcgtaggc gtcgatagct 180
agggtgatc ctttgtacca cacaccgaac tacatgtcaa ctgtattttt ctggccattc 240
acggtagtgg acctatgaat acgcgacgac tcacaatgat agggagtgtc gcgatgagct 300
tgcaacatat gacgtcaatt accatggcga ggccattgca gctatacaac aattggtatg 360
gcaagacatg aaaaacgggt 380

<210> 3812

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220058c09a1

<400> 3812

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 cttcaaacct ctctctattc ctctctacta gtcaccttct cccttccatt cactccaactt 120
 cttaacaccc ccaaacagaa caacggcaga gcaagcagcc agaaaaatgg tgttgctgtc 180
 caaagcaaca acagaacaat actcctacat caagaactac atgccaaactg cattctctctc 240
 aacaattccc atagtggacc tctccaaacc cgatgcaaag accctcatag tgaaggcttg 300
 tgaggagttt ggattcttca aagtcacaa ccatgggtgtt cccattgaag ctatatccca 360
 attggaatcc gaagccttca agttcttctc tatgccactc aatgagaagg aaaaagcagg 420
 gccctccaaa ccatttgggt atggtagcaa gaaaattg 458

<210> 3813
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058c10a1
 <400> 3813

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 gccttggcca ccctactgaa atgggtctcta cttctaagct cctctttctt ggagccagtc 120
 atcccctatg aagactagct ttattgcagc aacaagtgat cagacagatg ctcatcggcc 180
 ggggctaaag atccgtatct gaggtactgt ggaatatgct gtgctgagtg caaatgtgct 240
 ccttactggg acctatggga acaagcacca ctgagcttgc tacagggaca tgctcaacaa 300
 gaagggcaag cccaaatgcc catgaagtct tgaactcaaa gaccaagtca cacacagact 360
 tatgagaata acactagtgt gatgcgttta caactacatc gtgaactccc acacataatg 420
 tgggatggat atacgctaga tctgcacg 448

<210> 3814
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058d01a1
 <400> 3814

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tcaccagcag agcagcttga gtttgggact ttggggaccaa tgggggttctc aggtgtcaat 120
gagctgtcac aggcaaata gggaaacttaa atctactgga gcacatgaag atcaaagggtt 180
tcgtgggtggt cacagtcaac gatcttcccc agatcaaccc tcctcacctc atgtctcaag 240
gggtccctga ttctgcggtc aggtcaagtgc gccaggagga attcttgaaa gaggaggatt 300
gatcctcttc attctaggac tgggcagggc atgtaaccgg ggaatactat ctgtccattt 360
catggcatta ttggtcttta aaaagaaaat gaatgtagcg tcctttgctg attgtgcccc 420
ggctcttaca tgtacactta c 441

<210> 3815
<211> 310
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058d01d1

<400> 3815

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atttccccag gggaaaattt aacccttaaa aacatcttaa aaaacaacca gagaacggaa 120
tttattattg ctaaaagtaa aggcaagcgt tttgaaccat tatgcccaaa acacccaaaa 180
acaggattaa gggggggccag ttttacaagc ttttttcaaa ggaaggcgtt ctaaggggtg 240
ataaaagcaa atccgttccc tacgggcct taggggtaaa gcccacatcaa aaggtttggg 300
actaaaacgg 310

<210> 3816
<211> 260
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058d02a1

<400> 3816

ggaccaacaa tgccatctgt ttttatgttt tatccttatg atcataatac tggttagggc 60
tcaccagcag agcagctcga gtttgggact ttggggaccaa tgggggttctc aggtgtcaat 120
gagctgtcac cagcaattga gggaaacttaa tctactggag cacatgaaga tcaaagggtt 180
cgtgggtggtc acagtcaacg atcttccccca gatcaaccct tctcacctta tgtctcatgg 240

ggccctgat tctgcggtca

260

<210> 3817
<211> 513
<212> DNA
<213> Glycine max

<223> unsure at all h locations
<223> Clone ID: jC-gmf102220058d03a1

<400> 3817

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tccaccgcct cctctcccaa aacctcccc caaattcccc tcccctaaac cctaactccc 120
ccgaattccg caactccctc cgctacgccc tccgcatact ctccagccgc ctcaccccct 180
ccgtcgcccc cgacgccgcc gccatcgccg actccatcaa gcgccgcctc gctacccacg 240
gccactcctc cgaagccctc tccttcgccc acctcttctc caaattctcc tccaaagccc 300
aaagcgtcaa caacaaattc gccgtcatct acctctcaa aatcgtctcc gaagatcgcc 360
acaccaccac cgcaaccacc acccctctcc tcccacact cagtttctcc gaacctacct 420
ccaacaaaaa accctggaac gacaacggcg ccctctcat ctncaggacc ccgagaaccg 480
ccgcgacgtc gcgtttcgcg agttcgtcga tct 513

<210> 3818
<211> 192
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058d04a1

<400> 3818

gcaaaacaac atggccccgg gattcactac actatcaatg cagccctcc tcagctacga 60
aagctggtaa agcggcttga gcgaaactac tatttgcagc gttccctcat caaaggacaa 120
aagggggggg ctgatttcaa tctgggggca ccgccaaga agatactgaa ggaatataag 180
gctctggcct ca 192

<210> 3819
<211> 559
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058d05a1

<400> 3819

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agagttccag aggaacgcag agctggaccc agaaaagagg ctgtaccacag gtggcagtta 120
cttcgaccca ctgggcctgg cctcagatcc agagaagaaa gccacccttc aattggcgga 180
gatcaagcac gccgtctcg ccattggtggg cttcttgggc tttgcagtc aagctgccgc 240
cactggcaag ggcccgtca acaactgggc caccacttg agtgaccac tccacacaac 300
catcattgac accttctcat cctcctctta agaagaagca aaagaagaag aatagtcttt 360
cttgtgcctg gcattctagt tatattgaaa agtctttttc ttcttcttcg gctttgggtt 420
gtaattaaac attttctaca tagctggatt agtagtactt gtgaaaaact tgtaacgtga 480
aattggagag gctaagcaga aatgcttctg cttgatggta agtggttctc tgtgaatgtt 540
aattatgcac gaaatcgag 559

<210> 3820

<211> 500

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058d06a1

<400> 3820

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cgctttttct gcatttctag actagacgtt ctaccggaga agcgacctta gaaattcatt 120
atgggtggcaa cagctgctac ttcattcattg ttccctgtta cttcaccctc gccggactgt 180
ggaggagcag gcagcaaact tgggtggggg cctgcaaacc ttggaggact aaaatccaaa 240
tctgcgtctt gtgggtggctt gaaggcaaag gcgcaagccc cttcgaaaat taatggaacc 300
acagttgtta catctaaaga aagcttcaag catgatgatg atctaccttc gcctcccccc 360
agaactttta tcaaccagat gcctgattgg agcatgcttc ttgctgctat cacaacaatt 420
ttcttggccg ctgaaaagca gtggatgatg cttgattgga agccacggcg acccgacatg 480
cttattgacc cctttgggat 500

<210> 3821
 <211> 346
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058d07a1

 <400> 3821

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 attagtgacc tggatcctgt ccggtggcaa aactcacatt ggcgctgcgt caaggggtggc 180
 tgggatgaat ccactgctgg agacaggcaa cctacagtgt ctctttggga aattgagcca 240
 ttaactacat ttctatgta tgcattgcca ttccccctta ggcttaaacy ggcatggtct 300
 gcaggactgc cttcattcca tggcatgaac gatgacgatt ttgtcc 346

<210> 3822
 <211> 379
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058d08a1

 <400> 3822

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 ttctgagaaa caccctcatc accctcggct ccggcgcccg acacgatatt cttcgggttac 120
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 ggaggtcggc catgcatatg aactacagaa gaaaggggga gcgaaagagg aaaacgttga 300
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<210> 3823
 <211> 569
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058d09a1

 <400> 3823

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 ggtgtggcaa atgctatggc taactcttcc aacaaatttg atcaactctt ccaaccaagt 180
 tgggcttttg accactttat tcatgaaagg gatcttctca aactcaaact tgacaaaattt 240
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 aagctcgtgg aaggtgactc tgctggaaca gtcactgctt tctatatgtc atcggacggt 360
 ccaagccaca acgagtttga ttttgagttt ctaggcaaca tcacagggga accttactcg 420
 gtccaaacca acgtgtatgt gaacggtgtg ggcaacaggg agcaaaggct caacctctgg 480
 ttcgacccca ccaaggattt tctactatac tctatcttct ggaatcaacg tcaaagtgtg 540
 taagcaccca tcccccttct taattatgc 569

<210> 3824
 <211> 502
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058d10a1
 <400> 3824

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 caaggtcgac gctgttccag ctgtggttcc gccatccaag tctgccaaga agggaggcaa 180
 gagacaagct caagatgaaa ttgagaagca attgagtgcc aaaaaacaga agataaatga 240
 ggttgctcag aaacaaaagg aggcaaagg gcaaaaagaag gaaagtagtt cagatgattc 300
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 acctgctaag aatggtgctg cccctccaaa gaaaggcaag ctgcctcca gttcttctga 420
 agatgactcc tctgatgagg atggtgtgctg tgcaaagaac cacagataat ggttgctgag 480
 aaacacaaga atggagcaac tg 502

<210> 3825
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220058e01a1

<400> 3825

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tgaatgacaa gggaaactta tccttcccct taactagcct ccgtgatgat ttgatcttca 180
aaattcttga ttctgagggg aatgaaatat cacgtacagg tgttcaaata aattgatatt 240
ggagaaaggt gttttggaag acaactttcc ccttgagaggt ggccatctgc gtttgaagtt 300
gcaattcatc cttagtgatg aagagcgcgga cagaattcgt tcattgagac aatctgcatt 360
aaagaaaaaa catgatgagc ttcttagttc cagtagaaga ggtgaagaaa gcgatagtag 420
aaccgtgatt ggaaatgctg cattgccctt tcgcagaaat gatgaggtct caggcttttt 480
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<210> 3826

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058e01d1

<400> 3826

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ggttctaggc acaccaccag accaaacaga catgaaaaac caaggcgggg ggagaaagaa 180
taggacaaac gcaaggaaag ggcacgagag gcaatagaag tcgttaccgc gaccccgccg 240
aaactatggt atgggataag tcgttcagt atgataaggc atggcctagg ccctaattgt 300
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cacagcgtgc taccgctgcc aaaaccggaa acaagtgaag gcaattaacc aggtgttgac 420
gaatcgggga cggataagca aggtacgaca gtaaccaagg tgcaaacggt ggtaggtgtg 480
ggaataattg ggtgcatgcg cggtgggcct aatgaaat 518

<210> 3827

<211> 283

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058e02a1

 <400> 3827

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 gcattcactg gtcaaactgc tctgaagcag ctcaatgagt tcgtccgcaa gaccggtggc 120
 gccggcaaag gtcgcactaa catgcgccgc accgtcaaga gtgctcctca gagcatttgg 180
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 accggacaat tccctgggtga ctacggatgg gacactgctg gat 283

<210> 3828
 <211> 348
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058e03a1

 <400> 3828

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 tcactactga gaatagcttt gtctgattta gaatcaaacc ttcctaggtt tttcttattc 180
 ttaagaatat agtgttccca tgcaaataca tgaaaatatg atatatttgt ttctttgtcc 240
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 tatgtagtat ataacaacta tttatggctt cagctcaaaa atattttt 348

<210> 3829
 <211> 391
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058e04a1

 <400> 3829

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 ttgtggctac tgggccacct tagatggaaa caactttggc aacagcgata ggaaaagaag 180

ctggaacaat tattataaca ggaactgtaa catttacaat gactaccgaa caaaatttgg 240
 ggaccatggt tgcccccttc atttttacac ctctgaacat gctgatgatg ctcgataaga 300
 tgctgatcca tcatcttttg aaaggagaaa atattcactg tctgcttggc aagaaagcca 360
 gcaatactat gttccacccc atggaccatg a 391

<210> 3830
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058e05a1
 <400> 3830

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 aattggaagc atcgatcgga aaatgcaatc gttatcggtg agtatgagtc tgaggagtag 120
 tagcttagtg aattttcttt tgctgggttc agagacgaga gtgagaagca gaaggagtgt 180
 catcgtagcg tgtgcttcag agggagacag tggcagcagt agcacaagct cgtttctctc 240
 tcggacccaa acctacgctc ttcttaagca acaattgcaa gtagctgcta aatccgagga 300
 ttacaaggaa gccgctagaa ttcgagactc gttgaagcta tttgaggacg aggaacctgt 360
 tttgcgtctg aggagactat tgaaggaagc agttgctgaa gagagatttc aggatgctgc 420
 tagttatcgt gatgagctaa acaaaattgc tccacactct cttttaaaat gttgcagtga 480
 tgctacaaca ttgggaatc 499

<210> 3831
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058e06a1
 <400> 3831

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 gggctcttcta cacagagctg taaagagaaa ctgtaggcct atggtagaac tactgttaag 120
 atttgttcca gttaaaacct cagatgggtgc agacagtga atgaagcaag ttgccgaagc 180
 ccctgacaga ttcttattta gacctgatac tgctggggcca gctgggttga ctctcttca 240

tggtgcagca agtatgagtg gctcagagaa tgtgttggat gcattaacca atgatccacg 300
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accatgcttg ccttaggggc tattactctt tacattcact agtccagaac aagaaccaca 420
agaaaggtga agacaacatt tgttgatatc cctggaac 458

<210> 3832
<211> 558
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058e07a1

<400> 3832

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gcacctgcta atgccgatca aaacgatgag ggcaccaggt gggccgtttt agttgccggt 180
tccaatggct actggaatta caggcaccag tctgatgttt gccatgcata tcaactactg 240
aggaaaggtg gtgtgaaaga ggaaaatatt gttgtattta tgtatgatga cattgctttc 300
aatgaagaga acccacggcc tggagtcatt attaacagtc cacacggaaa tgatgtttac 360
aaggagttc ctaaggatta cgttggtgaa gatgttactg ttgacaactt tattgctgct 420
atacttgga ataatgcagc tcttactggt ggcagtggga tggctgtgga tagtggcccc 480
aatgatcata tatctatata ctactctgat catggcgggg ccggagtgct agggatgcct 540
actaatccat acatgtat 558

<210> 3833
<211> 475
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058e09a1

<400> 3833

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ctctcgatcat gttcatgtct ccttcacctc ccccaaacc atctactacc actacagaaa 120
gctctctcat gcctctcaac gttccttggg ggtcaacagc gttttgaaaa cagttgacct 180

gacacaaacc tctttgcgga gatccaactc cgaggatggt ggggtctctgg gagaaaagcc 240
caccatcctg gtctccgaga aacttggaga ggcagggctg cacgtgttac gtggcggttg 300
gcacgtggaa tgcgcgtatg agctctcaca ggaggagcta tgcacgaaga tctcgtgctg 360
tgacgctctg atagtcagga gcgggacgaa ggtgacgagg gaatgtgtct gaagctggga 420
aagggaagtt gcaggtcgcg ggaagagccg gcgtggggat tgacaacgtg gatct 475

<210> 3834
<211> 424
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058e10a1

<400> 3834

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gctctctcat gcctctcaac gttccttggt ggtcaacagc gttttgaaaa cagttgaccc 180
gacacaaacc tctttgcgga gatccaactc cgaggatggt ggggtctctgg gagaaaagcc 240
caccatcctg gtctccgaga aacttggaga ggcagggctg cacgtgttac gtggcggttg 300
gcacgtggaa tgcgcgtatg agctctcaca ggaggagcta tgcacgaaga tctcgtgctg 360
tgacgctctg atagtcagga gcgggacgaa ggtgacgagg gacagtgttt gaagctggga 420
aagg 424

<210> 3835
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058f01a1

<400> 3835

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tcaagaagct cctcacatgg gtagtccaag agctgctgat tgttttgatc tttcaggttc 120
tctgactcac aaggtcacag aagctgataa cagacttggg gtgggggact catttcctgg 180
tataaatcca gaaaatatca acaacacaga cctttatgca attgaaaagg aattgtattt 240

gggttctcta tgtgaagttg cagacacccc aagcccctgg cagttttgga tggtaatgct 300
 gaaaaatgga aactatgaca ccaggtctgg gttatgtcct caggacggga aaaaggtacc 360
 cccttttagc ccggaaggt ttccttgttt tggacaaggg tgcataaacc aaccatctt 420
 gtgtcatcaa tggacgcagc ttaaagatgg cacaatgcaa ggggggttca gtggactta 480
 tgatttgat tctggttg gag 503

<210> 3836
 <211> 458
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220058f01d1

<400> 3836

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 aatgcggaaa agagcggttg aaagcgcagc atcaatggag taacgaagat cggctaaaga 180
 ggagcgggct cgaaagatga attacgaatt accttataga gagaagaaca gcgatttgaa 240
 ataacagagt aggtagggtg acacaccaga agagtaatta tgaccaagga tgccatacag 300
 gaaagacgga ttaatgatga tttgtgcggt tgttatagtt atgcttagga ttacacctac 360
 gcgtaggtgg ctttttagttg cacggtgtag ggttgcattt actagggttc aagttttaat 420
 gcattagggt tgcgctgtgt gggcgttggc ggttgggt 458

<210> 3837
 <211> 405
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220058f02a1

<400> 3837

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 ccttgggttg atgcccaggc tatggatcaa attaaaaaca atccttgcat agacatgtca 180
 gagaatgcat ccaacacaca tgaacttgaa gcctctcaat gaagaaagag gttgtcccga 240

aatctgaggg ctgaagtcaa gtcgatgctt attttttgcc atgctttaga aggcataagta 300
tattggtagc ggcattctga taatgcacta aattcgtgct gtaagattaa ctttctaata 360
tgagtaaaaa tactatgggc cttgcgcccc gcttgagtgc tttgt 405

<210> 3838
<211> 353
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058f03a1

<400> 3838

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tgcgctccca ttcaagttc attgogagat cttctaaaga cctggccctg cgaggggtgga 180
aatatgtgac caccctatgc acatagaaga aacacagtac ccgacaacgt tcttttataa 240
agaagacctt catccaggct taacaatgaa agtacaattg aggaagcctt cctttcaacc 300
accatggggg gctggtccat ggttcacgga aatgaaagac actactaaag aag 353

<210> 3839
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058f04a1

<400> 3839

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gccggcaaag gtgcgactaa catgcgcgc accgtcaaga gtgctcctca gagcatttgg 180
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accggagaat tccctggtga ctacggatgg gacactgctg gattatcagc tgacccggaa 300
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cttggctgca ccttcccaga gatccttgag aagaatggtg tgaaattcgg cgaggaccgt 420
gtggttcaag gccggtgcac agatcttctc agagggaggg cttgactact tgggcaaccc 480

aaacctgatc catgct

496

<210> 3840

<211> 264

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058f05a1

<400> 3840

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tgttggttga aagaggaaga agaagaagag ttgtattgta gaatgagcca accaacggtg 120
atacttgcca ctggaagcta tgatcacact attcgttttt gggaggacaa gagtggtcgt 180
tgtttccgca ccatccaata tcttgagtcg caaggtaacc ggctggagat caccctgtgt 240
aaacgcttcc tggctgcagc tggc 264

<210> 3841

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220058f06a1

<400> 3841

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tagcttaacg aattttcttt tgctgggttc agagacgaga gtgagaagca gaaggagtgt 180
catcgtagcg tgtgcttcag agggagacag tggcagcagt cagcacaagc tcgtttgtct 240
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attacaagga agccgctaga attcgagact cgttgaagct atatgaggac gaggaacctg 360
tttcgctct gaggagacta tngaaggaag cagttgctga acaagagatt caggatgctg 420
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<210> 3842

<211> 422

<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220058f07a1
 <400> 3842

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cgagcatcga tcgaactacg gtgtgggaag gaatatctta aactagcgct agatcgtaaa  180
gatttgaaaa ggttgattga gagagaggat taactaggag gagaatggaa gcacgtatga  240
gcactctaata caatgctttc ctcccacccat tagctggtag ctcagggcaa gtaataccac  300
atgaggcgag ggtgtcaggc cttgggactt agagttaa ttttaatttat acagacagca  360
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gc                                                                    422

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<210> 3843
 <211> 465
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 <213> Glycine max
 <223> Clone ID: jC-gmf102220058f08a1
 <400> 3843

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aggactctct cgttgcaaca ggcgatgacg cgacaaaatg actattgatc tgcgccgtct  180
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attatagact ggtgccctac cacttgcatc agagaccagc tttctgaagc tttcactcac  420
aatgatgatt ctagcttgca tggccaactg gacacttacg gattc                    465

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<210> 3844
 <211> 378
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220058f09a1

<400> 3844

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ttccacactt ggagagaccg acgcacagcg catggcagca accacgcacg gcaccctgcg 180
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gcagcgcac ccatggcggg tagtgattca acaaccccg gatgctcaa aacacatact 300
ctctgtggga ctcataagccc aggtcgacag agtcatacc gtggcccaga ttgaggatcg 360
gatgcttgac aaagtctc 378

<210> 3845

<211> 308

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058f10a1

<400> 3845

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gagaatggag gagcatcccg cacattgtcc gcgcataatg gaagtggagc tgacgatggt 120
acgtactcac tattatttgc acgacagaca ttggattgtc gatgcctgac ctagcaccgt 180
ctacaggcat tgacagggct atggattaga tctaccctgc tgaggctcag ctcttgcaag 240
actaacacat tacttccact gtagtcgtga cagatgggta tgcgcaccac tatagaacac 300
cagatatg 308

<210> 3846

<211> 504

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220058g01a1

<400> 3846

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ttcggcgaca gcaaccttct caccgatggt ttcattgagga agagtatcac tgaaagcgaa 180
gatggcatga ttagtttggc gctgatttgc tcgtttaatc gaatgcgaaa acaccttaat 240
ttgggtgatg ttaagcccga tgaagtggcc caagaaaccg tgaatactgt tgctcaaact 300
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gaacttccaa agctagaaga tgttgagcag gtggagataa gaacacttgc tgtatcacca 420
tttgaatatg atctgaagct tgaagatgtg gagaaatttt ttgggtcaata tgcaaagggt 480
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<210> 3847
<211> 481
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058g01d1
<400> 3847

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atgtgacaac catagggttg aaagcgcgca tttttatcta ggaaggggga gatgatagag 180
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gagcgcgtac cgatgaaatg gaaaaacatg gcaaaagtag aaattatagg ggcaggaaat 300
gcgccgcgta accccccac acccacaccg attaatacctt gtaaggtgaa atagtagcaa 360
gttgatgttt tcgtggcaat tagtggtagt agtagcctag gtagaacatc aatttattag 420
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g 481

<210> 3848
<211> 446
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058g02a1
<400> 3848

gaaaaaaaa atggatgtag agaaagcctt ccacatgact ggaggagttg gcaaaactag 60

ctatgccaaag aattcctcac tacagaagaa ggaatctgat aaagtgaagc acataatcat 120
 acaaacagtt gaggagctct accttgcaac cactccaaag agcataggca ttgctgattt 180
 gggctgctcc tctggaccaa acaccctatc aatcatcaaa gatatctttc aggccatcca 240
 aggcataagc cacaggatca tgcaccactc cacagagttc aggggtgtact tcaatgatct 300
 tccaacaaat gacttcaatt caatcttcaa ggccatccca gagttccaaa atttgcttag 360
 gcatgacagg aaaaatgggt tcccttccat tttcatggga ggctaccctg gctcatatta 420
 tggaagactg ttcccaaaca gttact 446

<210> 3849
 <211> 314
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220058g03a1
 <400> 3849

acgatctagc gcaagattgg ctgtccgttg tttggggagg tgcattgaat ggtctctggg 60
 actcttggtc ttgcgagaga gaccattcg ataaacttaa cacactcggg tgccggtcgt 120
 gctagctcat ccagcccaag gttagtgaga gaacttacat gggccgtccc tgcaagtgt 180
 ggaatcgggtg atgaccctac gcatatcgct aaatcccgtt tcccgaaaac cttattgtat 240
 aaagaagacc ttggtgcagg ccaaacaatg catgttccat tcacctctgcc tacctttcaa 300
 caaccatggg gcgt 314

<210> 3850
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220058g04a1
 <400> 3850

agccactact cctacttcat ataattcaca ttcaccctc ttcttccttc catcatcgaa 60
 gtgccctaac aacattcacg cgctcttcgt cttttccttc atcaatccgc gcgacaccaa 120
 aaccctagat ccgggtcaat catcgggaga gagaaagggt ttgactttga gacagtattg 180
 ctagagagag gaacgggtggg gggcttggca agaaatggat cctggtcgct atgctctgca 240

tcaaggctgg gataataaca gcgctcttga gggatacggg gccgtccacg accccaactt 300
 ccgggttggt ggttcctatg acgagcgaag gtttatagat gaaagatatc caagggatgc 360
 tgtttaccag agaaataatt tccaccgtga cattttggat agggaggcct atctgccacc 420
 tggacctcct gttggccact ggagtcaagc caaacggaga ggttatgatg aagattatgc 480
 acttgacagg gaatctagac gttntcagag gccctatcat gaatcgtata atcaga 536

<210> 3851
 <211> 337
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220058g05a1

<400> 3851

ggcacgtgta gttgagtact aggccgccgt tacacgtac tgggtgccgc cgtcaccgca 60
 tgaatcacc accgtgtctt agccgcagtt ttttaccttt acctctaatt gtcccttacc 120
 ttccttggcg ctgaaatgga gagtgggtccg aacatcacat ccctggcacg tgacgggtgcc 180
 gctaagccca ccctcctcat atgcagactc tctctcaa at gctgagctac gtcctcttcc 240
 tccacactct ttgacaacgc ccaggagcct ctaagctcca tcagagaaga gaacgaccac 300
 cctctgttcc tgtgtgtatc atgccaccag ctactc 337

<210> 3852
 <211> 255
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220058g06a1

<400> 3852

ggaccaacaa tgccatctgt tttaatgttt tatccttatg atcataatac tggttgtggt 60
 tcaccagcag agcagcttga gtttgggact ttgggaccaa tggggttctc aggtgtcaat 120
 gagctgtcac aggcataatga gggaaactcaa tctactggag cacatgaaga tcaaaggttt 180
 cgtggtgggc acagacaacg atcttccaca gatcaaccct actaacctaa tgttttaagg 240
 ggtccctgat tctgc 255

<210> 3853
 <211> 222
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220058g07a1

 <400> 3853

 ctcttttctgt cagcctgatg tttgcagcag aacctcctca aagcaccata acggtgggga 60
 taggtccagt cgcggggcaa ccccccaac gcgtagaaat acacattgat ctgctgctcc 120
 tagctcatgg gtataccgta ggtgggggaa cagaacgggtg agtatgctgt taaggcgtct 180
 gactccgtct ggggggagtg acagcgacga catcgagac tc 222

<210> 3854
 <211> 152
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220058g08a1

 <400> 3854

 cgaaactact gtatgaggcg tccgctcagc agaagcgaga aagaggggtg tggataatca 60
 tcttcttgca ctggcgccga agtcactgga gggatcgatg gcactggcac tcctgctat 120
 tgatacaggg gcatctagcg ggattggtgc tg 152

<210> 3855
 <211> 512
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220058g09a1

 <400> 3855

 tgaaaaaaaa aaacccaacc aacctcagct tcttgattgc tcattttctc cgtgcttgggt 60
 aaattaaaca catcggatcc ctcttttgct ggacataaaa gaattcggtc gaaagaaaga 120
 cttcacacac tcacatagat tgtcacacat tgcattgtag aaacaacaca aggaaccatt 180
 ttgttgcata gctaatacaag ttaattacta gataatagag agaaaagggc agggaaaaag 240
 aagcctcaca tagcattggg gtgagtgaag caccaacaag cggcgttaca aaaaccctca 300
 gacgatgctg gctgggtggt ctagttcgac attgttgtca ccgaggcaca gattgaggag 360

cgaagcatca gcacagcttg agcctgccac ttccagctac cttctttcat gagcacgcac 420
agattggacc tgccatgcac caccaccacc ttccactcgca tcaacagaga caccagctct 480
tcacgctctg ttctttcagt ggatcagaaa cc 512

<210> 3856
<211> 491
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058g10a1
<400> 3856

aaaaaaaa acccaaccaa ttatcagctt cttgattggt cattttctcc gtgtttgtta 60
aattaaattc atcggattcc tcttttggtg gacataaaag aattcgtag aaagaaagt 120
ttcacacact cacatagatc gtcacacatt gcattttaga aacaacacaa ggaaccattt 180
tggtgcatag ttaatcaagt taattactag ataatagaga gaaaaggac gggaaaaaga 240
agcagcacat atcattgggg tgagtgaagc agcagcaagc ggcgttaca aaaccctcag 300
acgatgttgg ctgggtgttc tagttcgaca ttgctgtcac cgaggcacag attgaggagc 360
gaagcatcag cacagtttca agcctgccac ttccagctac cttcttccat gagcacgcac 420
agattggacc tgccatgcac caccaccacc ttccactcgca acaacaaaga caccacctat 480
tcacgctctg t 491

<210> 3857
<211> 391
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058h01a1
<400> 3857

gttcattcca gcttgtgtaa gatttgacct gctttattgg cgtgctattg ctccgaatag 60
ttgatgcata agatataatg agactgaccg acatgaatgc tcaagcctgt caacatccat 120
gatacgcaaa gtaatctgaa gacgattgaa gtaggatact gtccggagac ctgtcaatga 180
actatattct agttaataga aagctacttt cttcgattag aagcactgga ggtcactcgc 240
tgttatacct taatcggact attgtatggg agaacctgaa tcatatatgc ggctcctgac 300

ttggggaatt ttgggcacat ctgcagagca tgtaattgaa tagatgagag cacatggcta 360
cttcgcgtaa ggatcttata ctatcacact a 391

<210> 3858
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058h01d1

<400> 3858

gctgcttcca ggaaggtttc ccgtcatcac tgtatgacgt cctccttctt tggggggggg 60
ggggggcgac taaagttcaa tactggggtg aaagataacg ccaaagatgg aaaaggcgaa 120
agacccaaac gggagatcat gaataaccat gtggcattaa caaggagcgg tagtgcgga 180
ccaaagtacc ttgtgggttc agagcgagtt gtgattaaac ggttaccggc gatcaacgtg 240
ctgacatttg tgataacgtt aaagggtaccg gttaagttac ctatgtgtgg gctgggtgta 300
atgcagctgt gcattcaagg ttgcctggat cgatgtacgt agcgtcatcg tagactgtgg 360
tgagacgcgt attgaaagggt aagggtatgcc ttcgtcgggg ataatcgtcg catgcccaaa 420
atttccatcg gatttaatgg aagtcttggc tactataggt tttgggtctt cgtgcctcga 480
agactcaaca ccgtttctat tcagatcttt ggtttaatac g 521

<210> 3859
<211> 241
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220058h02a1

<400> 3859

ctcacgaatg gttgacatta tgttgacgca ggtcacaaga ttggagtgga tgcgggtttt 60
ttaccaggcg atgttcataa gaacattgat gacggtcaaa cgaagattac ttcttgggct 120
gcagaccttt cccgccagac taacgagtat ccagagacag gtggaggtgt catatatgca 180
atgcgactgg ctctggatat tgatgctgct gctatgctct ttcttgcatt tatcggattc 240
t 241

<210> 3860
 <211> 288
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058h03a1

 <400> 3860

 tggtaaagct gctcaaggaa aaaaataaat tgatgaatca aacgccttcc acataactgg 60
 aggaggagga taagtaacta tgccatagaac tccctactac agaagaaggc atctgctcaa 120
 gagtggcagc tgaacatata cacatgaggg ggagctctac cttgcaacca ctccaaagag 180
 cgtacgcttt gatgatttgt gctgctgctg tggaccacac accctatgga tcatcaaaga 240
 tatcttccac gccatctaag gtataagaca caggatcatg caccactt 288

<210> 3861
 <211> 364
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058h04a1

 <400> 3861

 taggaggggg gcggtgattg tggtgtgtgc tttagaggat gaaagatttc aattcggatc 60
 tattcgaccc gggaacggcg atggactctt cctccttcga ttactctcgc agtgcttctc 120
 cttccgacgc cgattttggg ttcgctttca atgacagtaa tttctccgac aggatcctcc 180
 gaatcgagat catgggggac cccggcgagg cccgaccoga ttacgacggg tgcaccacta 240
 tctgcgactg ggcttgccac cgcaagagga ggcgcgagga tatcaagaag gataacgatg 300
 gtgatcttac tttattggct gacgagcaaa ttttgaacgg gaatcagcct gatatggatg 360
 attt 364

<210> 3862
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220058h05a1

 <400> 3862

 attagaagta acaaaagacc ctccctctca aaagaataaa caagtataaa aaagaaggca 60

cttccctcaa acagaaacta ccctctatct ctctcttttc aagccttaaa tgagtataaaa 120
agagtgaaga aaggaaagaa aggagcacca tttttggttt gagaaacata attagcaaga 180
gagttcaaaa tggggaagag agagtttaat ggggtggtgc tgatgatgct gtgtctgtgg 240
gtactgtggt gtcacagcct ctgtgactta tgaccacaaa gccattgtgg ttgatggcaa 300
gagaagaatt ctgatctctg gctccattca ttatcctaga agcacacctc aaatgtggcc 360
agaccttatt caaaaggcca aagatggagg ccttgatgct attcacacct atgtgttgtg 420
gaatggccat gaaccttctc ctgacaatac ta 452

<210> 3863
<211> 379
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058h06a1
<400> 3863

ctcattaatt gcaagaatgg cacttcggtg cttggtgatg tccctttctg ttctcttcac 60
tcttgggtctt gcgagagaaa gccatgccag agacgaagat ttttggcatg ctgtttggcc 120
aaacactccc attccaagtt cattgcgaga tcttctaaag cctggccctg caagtgttga 180
aatcgatgat caccctatgc aaattgaaga aacacagtac ccgaaaacct tcttctataa 240
agaagacctt catccaggca aaacaatgaa agtacaattc agcaagcctc cctttcaaca 300
accatggggt gttggtacat ggctcaagga aattaaagac actactaaag aaggatatag 360
ttttgaagag ctatgcac 379

<210> 3864
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220058h07a1
<400> 3864

gaaacagctg tgcagtatct tctgcgtctc catccagatc aggagggact tagcaagcag 60
gaggctgtcc gtgcaaaact tggtcagttt gggctaccaa gacataacca tcttactcct 120

attgccaaac tatcaggagg gcagaaagct cgggtggtct tcacatctat cttcatgtca 180
aatccacaca ttttattggt agatgaaccc accaatcatc tggacatgca cagtattgat 240
gcattggccg atgcactgga tgaattcacc gngggagttg ctcttgtag tcatgattca 300
agattgaaat cacgtgtatg tgaggatgaa gaagggagtc aatctggggg tgtcgaagag 360
ggcactgtca aaaatttccc atgaacattt g 391

<210> 3865
<211> 406
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058h08a1
<400> 3865

gtcaaactgt tgagaacttc atttgagata agaggataag ggcgcctata ctgtctattc 60
tggggatgag ccaagagcct ggaactaaat tgtatacaat agaccaccac ctaatgccta 120
cgtgggttcaa ctgagcttga tactctctgg gagggaaaga ttggtaaaac tcttgagaga 180
atctatgttc caggagacac gactcctgaa gcagatcgaa gagtccgcac cagccgagaa 240
tgtgagcctg tcaattaacc acccttctta tcgtgcgggg gatcatacat actatgctat 300
tgcattctct ttgggagga gagcatcagc tgtgtctgct gatgtggaat acatgactga 360
ggatgagctc cccatggacc atgactaaag tgcattgtcc tactga 406

<210> 3866
<211> 415
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220058h09a1
<400> 3866

cagaatcctt ttgtaactat tctctgaatt tccattcatt ctatgtagat tcctcttttg 60
ttttctcttc ttttctcttg aagcaaagtg aacttggtgt gtatctttcc aattgaagtg 120
aaagagtaag gatgtcaaga gggacaacat actggtgtta cacatgcagg cagccaatct 180
ggcttgaagg gagggaagcc atctgccct actgtgacgg aggctttgtg caagaactta 240
atgagctgct gaggagctgc gcgccaacac tgcttctcat cgcggagggg agatgctcat 300

caaatgcctg acattatgga tgctgtaaga gctgatatgg agcaaagatg ttctgagacg 360
aggatcctgg ttagagatgc tgggtgactac tttatgagggc agataatggc tggaa 415

<210> 3867
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058h10a1

<400> 3867

gatttacaga gacacctctc actacaactg ctgtactaca ctatgcaact ctttttcttc 60
tgcatcggga cccgtgcctg ctccccctgt tgataaatat gactttgact ggtccatgaa 120
gcaagctaaa aacctacaga tggaatctga cagcaaagtc tgctaggcct aaccacaaag 180
ggtcattcca ttatgggaag attactccta caaaagtaat taagttggcc aattcagcac 240
ctttgatcaa tggaaagctc cgttatgctg ttaacagtgt ctccatggtt aaccctgaca 300
cccctctcaa gcttgctgat tactttaaca ttcccgaat cttgagtgtg aatttactcc 360
aaaactctgc ctcaaaggt ccaggatata taggcacctc agtggtgcaa acttctctcc 420
atgattgtat tgaggttatt ttccagaaca acgaaaacac catgcaatct tggcatcttg 480
atgggttatga t 491

<210> 3868
<211> 343
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220059a01a1

<400> 3868

gtatgattat gtctagctat ctcgatcgaa ctgtccaagg tgctgtcaca ttacctctat 60
cggatataaa tgagtagcct tatctaatac tctgcttatt gcgttgggag ccccatctcg 120
gtctactgat gttcactcgc tcacctatct tcaatctggc ctacaaaaac tgtgctttta 180
aaacttgtag ccagtccttc catattcatc attttgggag agttcctctt aatgtttaag 240
attgcaccca gtgcgtcaca tgtccagcag ttgggcctga ccaactttcc acgattctag 300
aactgcatg tcgcattcaa ttgctcacia tgctgcecca tag 343

<210> 3869
 <211> 333
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220059a01d1

 <400> 3869

 catgctatcc ataggaagga ttatcccgat gcatcagctg ctatggacgc tccatccagt 60
 gcttttggcgg gtggggtggg gggggagggg gcgggcggg aggggggagg gggggtagaa 120
 cccagatata caagaacggg cgatgcctag agacaggag gcccttccg gaggacttga 180
 acaatttcgt gggcaggag ggggggcctg gggggcaagg gaaaggcgag atcccgaac 240
 aggaccaagc ggcgcccccc tataaaaatg aggggatggg gcctagtgat taggattgtt 300
 taaacccct gtgtgaggcc aacaaaaagt gaa 333

<210> 3870
 <211> 137
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220059b01a1

 <400> 3870

 tgagtatggt ctagctatct cgatcgaact gtccaaggte ctgtcaccta accgcattag 60
 gtgccaatct gaacaaacgt ggcttgagcg taagccataa ttacgtcaat atcagaggta 120
 ccgtataacg gaaatac 137

<210> 3871
 <211> 514
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220059b01d1

 <400> 3871

 gtgcttccaa ggaaggtttc ccgtcatcac tgtatgacgt cctccttctt tggggggggg 60
 ggggggacaa ttagaggggg gagggaggga ggctcgaact gctgcgctga aggcgggggg 120
 tgttggcaag ggcagaaaag aaggaggcag gtggatacgc gataacgtac aacggagggg 180

agacgataaa tagaaggtgc gcatgggtcg cgagcaggag gtaatagaga aggtcctggg 240
 gttagtaagc aagccatgta gcaatgtggt attagttata cgggtggggg tgagcacaac 300
 ggaggtacgt ggcgcaacca gagtaagcgc acggcacaga agagcgcggc gtttgacaag 360
 acgtgtgtgt gattacgggtt tgtatgggtcg tagttatgat agttctacgg cttagccacg 420
 aagttggggc tcagcatagt gcgggattta acaaccgagg gttattaccg ttattaagcc 480
 taatggcggtt aagggggggc tgcaagttaa agtg 514

<210> 3872
 <211> 375
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220059c01a1

<400> 3872

gtatggtcag gtctagctat gtcgttcgga ttgtcctagt atgatgtcac aaatctttga 60
 gccaaatttc cgggggtagc tttctaaacg tgacgttagc gtatgaggaa agtagaattt 120
 ttgtctgcta atgttgtgta ggtgtgctat acccatgata cgataaggat tgagtagtgt 180
 cgtgataggg cggcgtagcc ggtggaagta atatatgggg attaaacacc agcgattgca 240
 gccaggtaga tagtatatga gttagagtct gcgcgtaggt gtgatagacg aatgagttga 300
 aagctgtgtg tagtctaatt actacatcta atagagatag cttttcatat catagctatg 360
 acgttggtat tgaag 375

<210> 3873
 <211> 248
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220059d01a1

<400> 3873

tcacggtttc gttccgctat gtcgttcgaa ctgtccatga tgctgtcacc cgtctgtgag 60
 cggagacgca ctggtggagt gcagggctac caaggtaaga agtcgccatt aacgaggttc 120
 caagacaaaa tgggttgata ttcagactgc tgcgtggaac caagaaatca ttgcagccgc 180
 cgagtaattc aagatagtgc taagggccac agtgcacgta gatataggcg catgcgatag 240

ccctagtt

248

<210> 3874
<211> 270
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220059e01a1

<400> 3874

gtacatgggt atgttcagct atgtcgatcg aactgtccat aggtgctgtc accacttcgt 60
tggtgccccg aacaggctct gcatccaagt agcccagttg agcatgcctg caccaatgac 120
ccagtttaag gcaggagaga catatacggg tattaagcgg gacttttaag cagtttctaa 180
gattgggggt gcatgttcag ctgtgcgctt agggctacat ggggatttcg atttggcaaa 240
gaggtagggc ttagcacggt ctcgattaga 270

<210> 3875
<211> 431
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220059e01d1

<400> 3875

gctgcttcct agaaggtttc cgcgcacac tgtatgacgt ccaccttctt tggggtcggt 60
gggggggggc gtaaataagag acctattggg gaggtataaa tgcaggaact agaaaaggta 120
gtagtctaga gttaataggc agatagtatt acaaagacag ctgaagagag agcgcgatag 180
tatgctgca acagaaggct taagcagga ttggataatg tgggtcgcaa caattggcgc 240
agaaaggtag ccaattctaa gggttgagaa acactgctgt cagttcaagg ttctgtggat 300
cgatctacgt agattatcgt agattgtgga gagacacata ttgaaccgta aggctatgcc 360
tttagtctgg gatactcgtc gcatgcccaa aatttctccc gtatttaatg gaagtcttgg 420
ctaataatagg t 431

<210> 3876
<211> 368
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220059f01a1

<400> 3876

atcgagttat ggtctagcta tgtcgatcga actgtccaag gtgctgtcac cgcagataaa 60
gccgccgcag ccaccagccc gggaacacag cagcagccat caatgaataa cactgccaat 120
aagggttaggc ggtgatagcg ctctaggagg aacgtcaagg aacagtagta gtatagagga 180
aggcgttctt ataatggagg tagcttttag gggacaatac tagggtagag tatactgggg 240
aacctcatcg agattacttt tatccggtag tacagagcga tggccgtatg gctgggtatat 300
ggaaagacgg tgtgcggttt taggtgctga cggatcatt aaaattatga tcgggaatgt 360
tgtttttag 368

<210> 3877

<211> 551

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220059f01d1

<400> 3877

gcatcttcca tggaaggttt cccgtcatca ctgtatgacg tctccttct ttgggggggg 60
ggggggggca gataagaagc caaagagagg agcgggtggcg atgggctacc aactgctaaa 120
gagaggaaag cagcacaagc tctctggctg ggctttggta agcatgagaa aacgatttta 180
aaacgactat aacgcgacag ggctggcaaa ggtggcaaa cataaaaacg gtaccctgtg 240
tgtagtttga gaggaccatt aaaacaagtg ggggcgcagg ggggtgggaa taagcgcggt 300
agtactagcg tataactgga gcgtaagttc ggccaaccgg agagcgttat tagagtggaa 360
acccatgaaa tcaaagatat gtgcaccgac cgtaggccac catgggcaag gctaacaagt 420
cctgggtgtg gggctgaatg tggcgctgtg ggtaagcttt ttataatgtg gcattaaagg 480
cagcctgggt gtaacccaat taattgtatg caaggtagat gtcagcagag tttgtaaggg 540
ctcgggtgggt g 551

<210> 3878

<211> 153

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220059g01a1

<400> 3878

catagagata tcgtctagct atctcgatcg aactgtccaa ggtgctgtca cctacgattg 60
gaccagaatc atgaatacct agggaagtta atagtggat tcagatgagt agactagcca 120
gaacgaggta aattggctga agtaagaatc tag 153

<210> 3879

<211> 511

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220059g01d1

<400> 3879

atcctggaag gtttccgtca tcaactgtatg acgtcctcct tctttggggg gggggtgggg 60
ggagacgcta gagatgaaac caaccagtgc aggcaataag gcgtaagaa gaccaataaa 120
aataaagcaa aacaagggat gcgtagtaag gtacgtaatg gagggaataa tataggggga 180
gtagagaaaa tcaccatatt cgaggggtgg gtattacgtt attggctaatt aggtacaagt 240
agggttgccg gataaggcaa ccattanttg tagtagatgt agttggggta agttatagt 300
cggccaacgc gtggacacaa gttaacagac agttattaag ttacatatgc ggatgggtgt 360
gtaccgccag taattattgg aagtggtagc tgatgccccg ttacgtgcac agggttgcat 420
gtaggtgcgt actcagattg cccaatagcc gacagttatt atgcacaata agcggggttag 480
ataacgttgg ttgaagcgtc atagtatatg g 511

<210> 3880

<211> 537

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220059h01a1

<400> 3880

gtaatggtca tcgtctagct atctcgatcg aactgtccaa ggtgctgtca ccttaciaaac 60
aaacaaacaa ccaaagccgg agtataattg gtaatccaat tcctcggcca gggcggggtc 120
ctagaccggc gtgcgggtcc gagaccagcc ccgggggtcca ccgtgcgcat tggaggggat 180

caattcgggg acataggggtg agattggagc taaggggaagg gtacgatcta aggagcagtt 240
gtcatgtatg cagtggacaa ggcacgtggg ggttttgcga gcgggatggg taagtggggg 300
aagtgcgcat aagtagggag gagttaaggg acggctagat ggtaagggt ggggggatgg 360
gagccgtgaa gcagaagtgg cggtcggtta cagcaaggtc ggacatagcg tgcgtagaag 420
gcaggcgcga gcgtgagggc ctaaggaggc acgtgccaga agacacagga cacaccgaca 480
cctcaaagcc acgcacgatc aaagcgggga agtggtatgt ggatgggtgg acgagac 537

<210> 3881
<211> 531
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220059h01d1

<400> 3881
gctgcttcca ggaaggtttc ccgtcatcac tgtatgacgt ctccttctt tggggggggg 60
gggggggggg ctgttagtag aagtagtatg ggtgatacga gaaaaaacta tagttattag 120
aaagacctat ctgtacggtt tagtagtcga aataggggta gcatcaaacg tgaaaagact 180
atgttattaa cagcgagccg atgcaggtaa gcattaggaa aaaaaaatgc ggaaagagtc 240
gagacatgtg caacgttaga gaatgcaagg gggaggcgcg ttataacggg ttggggccta 300
ccagagggca gcgagaatgc aacgatttgt cacacggagt aacaaacaat acgttgcattg 360
tggggggtaa taggaaatgc gatcggtata acgttgcgga agattagtac gaaggcgggg 420
atttgtgggt atcccgttaa tatttccccg aggattacgg acgagcatag tgttggtaaa 480
taagcgtagc atacactgga tcgactgaag tacaaccgc agtggaaga g 531

<210> 3882
<211> 483
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220060a01a1

<400> 3882
gtaatgatca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca cttggttgtg 60
tttcggtgtg tgttattgtt tttgtgttgt ttgtttgtgt tctctgtgtt ggttgttctt 120

ctagtgttcg gcttcttaat tttgtttgtt attctctttg ttgttttaat gtgtttgttt 180
gttctctttg tggtatatgt cttatgattg ttgtttgtaa tcatttttatt ttgaatgccg 240
ttaattcggt tttcaacaaa ttagtggctg tcatcatgct caggggtcaat atccgtgtcg 300
tcgtagccac aactttcacc cagattttat atgtcagcat agtagtcagc gtgatagtaa 360
aataggcctt aacagtagtc caacgcaaca ccacgtcaca agcaacagag aggtccgtgt 420
catgccgtat gatgggctcg accccatgtg gcacgtcaac actgggtgga taacaggaaa 480
caa 483

<210> 3883
<211> 545
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220060a01d1
<400> 3883

gctgcttcca ggaaggtttc cgcgtatcac tgtatgacgt cctccttctt tggggggggg 60
gggggggggg gggggggggg gggctataat agctaccggt aggaaaaaag acccacgaat 120
atcgaaccat gaagacaagg tgaagcggtg gccacaaata gacctagaac atgtgctgtg 180
gtggcccgtat tataggtggc tcggaggtga taggccatga ccaaacaagt ggtaccgcga 240
gtgtatttta caagagcccg ggtttattac cgccggttgt ttagagtttg ctggcctata 300
gtgtgatgcc caataggcgg tcattagttg caaggggcgc gaaatttgtt tagcggtgcc 360
ggcgagccgc catttgttta gcggtttgcg tcgacggagg tgcaccgtat attattattc 420
ccattagcgt tattattgct aggaccacc gaattgttgc tcctcggcca caacaagagt 480
tccgcgaggc caccctaga cttggtagcg tgtctaccct agaattcgta ggctgctcac 540
cgatt 545

<210> 3884
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220060a09a1

<400> 3884

atcacatctt atccagacaa aacaactgtt atggataggt atcagagggt agagaagccc 60
aaggcagaga gccctataaa cgagaacgag atacgcgtta cttctcaagg aaggacgagg 120
aattacatca cctacgccac cactctcctt caggagaaag gatctagtga aattgttctc 180
aaagcaatgg gacgtgcaat aaataagact gtaatgattg ctgaactgat caagagaagg 240
attgttggtc tgcatacaaaa caccctaaatt ggatcaactg atataactga cacatgggaa 300
ccactagaag aaggccttct ttctttggag actactcgcc atgtntcaat gatcacaatt 360
accttgtcaa agaaagaatt ggatacgtca tccacaggat accaaccttc tctttcagtt 420
gatcaagtag aaccttaatg aatatgatga 450

<210> 3885

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060a09d1

<400> 3885

aatcaaaact tagcttactg caacaattcc tattaaaaaa ttttacaatt gtgattttta 60
cgagtcttta aacaaagaaa acatatctaa cttaacctac ccaacgtagc aaaattatac 120
aggttacagg gggtaaacac tacatcaaaa ctgcagaaac atggctgcaa cactgaacgc 180
ttcaaataat accaaaaata caagtaaate tcacaaagaa ctaaacagag aggcaacatc 240
taacttaaca tatacatgat aagcaacaaa cacttgatca agcagctggg acctgggtccc 300
ttccccggcc acggcctcgg cctcttcccc ttccacggcc acggccacgt ggtggagggtg 360
gagcatcata ttcacatag tcatagtaac caactggctg cacacatag cctcgtcctc 420
gtcctcgtcc ccgaaaagca tgcccccttg caccgaccag ccctcttcac catagccacg 480
ttcaccatcc caaccatcac catattccat acccca 516

<210> 3886

<211> 448

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060a10d1

<400> 3886

caataaagaa tagtttgtaa cttcggaaaa agagaatcta gtttattttc ttacatagaa 60

tcctcatata tgtgtgaata acacatacat tttttctata gatacattcg aaatctttga 120

ttagtgctcg agccggatga tgaaaaatta tcatatccgg ttctttcgga ggatggatct 180

ataagaattc acctatccca ataacaaaaa aacctgactt gaatgatcct gtattaagag 240

ctaaattggc taagggaatg ggtcataatt attatggaga acctgcatgg cccaacgatc 300

ttttatatat ttttcagta gtaattctag gtactattgc ctgtaacgta ggcttagcgg 360

ttctagaacc atccatgatt ggggaacccg cggatccatt tgcaactcct ttggaaatat 420

taccggaatg gtattttctt cccgtatt 448

<210> 3887

<211> 577

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060a11a1

<400> 3887

cggctcgaga gatgatgaga tgcattccga gtgcttctta acatatatta tttgaatttt 60

gattatgttt tcttgagttt aaatcttgtc tatcaataat tgaaatcatc ttaagtatta 120

attttcaaat gattattaca aaataaaaat tcttattaac aatcaccata taattcttcc 180

attacgcact ctaagtctct aattaaattc tattaaagag ttatacagtc acgaaacttg 240

tgctgttttt tttgacaaac aacttatttg ttagttgctg cccaaaatct tcagtagcag 300

tagtactggg tgaattctac tttataaccc tgaaaaaatg aaggagctaa gtacatcatc 360

atgatgttaa agttagttga tgggtgtgtg taattggaga aataacgagg cagtgtccca 420

tttaatttca ggaaaaaatt ccagtagagg aagtgtttga gtcgctgaaa tgttcaagag 480

cacgtttaac atcagacgaa ggagccagtc ggcttcaagt ttttggacca tacaattgg 540

aagagaaaaa ggagagccaa cttttgagtt tctgggt 577

<210> 3888

<211> 599

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060a11d1

<400> 3888

gagccttaaa gtgacctaga tatcattaac attctcaaaa caagacgaaa agtaaatect 60
atcaaccacg ttatttggtg tggaatagaa gagtaaacca ttcagatttt gactgacaaa 120
aggaccttca tectaatacta aagacggatt aacttaggtc ttcattacat ttgttgttct 180
tgttcttgga taagcaccaa agtgtgttct gcttgaaggt tgtccaaatt ccttaaactg 240
tataatgctg ttggattgta tcaatgtcaa gtcccttcag cttcactact gattcaacat 300
gtccttttcag agtatgaagc tccctgagcc ttgcaacctc ggcacgtctc ttagcttgct 360
cagcaatctc tgaaagctcc ctgtaactgt tcttgtcatt gaaaagggtg gttgtttcag 420
gtggctgaag accatgaaga gtccctctgag cagttgcccc ctgtgcttct ctctcttctt 480
tgccatagtc tttctttgta gtgaaggcag tcttgttctc caaaagatta tcccaagcct 540
tcccacttca gacgtatcgg attgcaaatt gagatatcaa gagggattat gtgactaac 599

<210> 3889

<211> 575

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220060a12a1

<400> 3889

tttctctctc gatacaaaaa tacatagaaa tggcctcttc tcttgcattc tcatcaactg 60
ttctctggat cctttttcta accattgcaa ctcttcattt gagttcagcc aggaagttgt 120
ccgggtcaga cccgcagttg cagtttcaat accacagagg ccctctctc aaaggcaaaa 180
tctcagtaaa cctcatttgg tacggtaaatt tcaaaccttc tcaaaaagcc atcgttgctg 240
atctcatcac ctgctctcc tctcccaaac ccgtcaccgc ccaaccatcc gttgccacgt 300
ggtggaaagc caccgataaa tactacaaaa actcgtcccc caaactcgct ctttcctcgt 360
gcaccacca aatcctggac gagaattact ccttaggcaa atcgcttacg aataacaaaa 420
tcttaaaact tgcattcaag ggtccacaga gaaacgctat caacattgtt ctcaattctg 480
ctgacgtggc agtggagggg ttctgttcag taggtgcgga acacacggat cctncgtggn 540
ggcgcgcgtg aacggaaaga gatacaagtt ggcgt 575

<210> 3890
<211> 501
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220060a12d1

<400> 3890

ccaataaaga gcttttatta cgaatattat tgggtgaacc aacgtcgta caacattact 60
tctaacta taattttgtt ttcaagctat aacaaaaaga atgaagaaat gaaagaatct 120
ctgggtattgc ctaacaagta acaactaagc atggatgaaa actagtttga gtggtagttt 180
tacacgagtg tggagcaagc tgaggtttca ggggtcaaca gagctggcaa cagatacttc 240
cttcggttga ctccattagc gttgtagctg gcaccagtgg tgggggtcaag caagaggttc 300
cctgcatagc cagggtacgc gcccttacca tacacccag tgcaagccga acctgcttcc 360
aacggagcct ctttgggtcc ttgaaagtaa ccatttccaa aagggttagt gacagtgcc 420
gcaaggagac tagccacatt gatcagcatg ccgtcaagtc ccacatcggt gttgggtgca 480
accaaagggtg gattctgggg a 501

<210> 3891
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220060b01a1

<400> 3891

gtaatgagca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca ccaaagcctc 60
agcctaagcc tctggtctac atgggtagtg gtaaggcata acttgtgctc tttgtgtggt 120
aagcttccgg tttgtgatga taacgtcgtg ggcttgagc aactgcggga tcataaccac 180
gtcatttcca cggatagcct tcaactacgg caacgtgtta tggcaccgtc gccagttgca 240
cagcgtgcag aggaggcact ggcacaacgt gacataagcc aaccntgac aagcgagatt 300
cgtacacaag ggtattgtgc actgtgcaca ggtacgtccg cgcagtcagg aggattaata 360
aagatacgca cccgatttcc cacgtaagag aggagcctcc aaagcacgag aggcatagcg 420

tgcaaataatg cgcttaaacg tcgctttgac acgtggggac ag

462

<210> 3892

<211> 534

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220060b01d1

<400> 3892

gtcttgcagg aaggtttccc gtcactcactg tatgacgtcc tccttctttg gggggggggg 60

gggggggaac aaagggccga gggcggaactt gggaggatag agcgtagtga gatagggtaa 120

tagaatcgag taacaggggt gccaggtgga tagagaaacc ctggggcata ggcgggggaa 180

aagagcggcg tcgttgtgat tagccagtac caaaatgcag tggcggcaag gctggcttac 240

gaacattagc ccagcattga agccaaaagg ggtgggggtg aaggtgcacg tggtagccgg 300

ctgggagtaa aattaagccg gccaaaggcg gggctagatg ttgtaatagt aacgtccact 360

gggctgagtg ttcagcaaac cgacaacagc atgtaagcgg ccgttacaac gttggtactg 420

ggcggttggg ctgtgtgttt ggaagtggta tcntgagtgg tatgctggta gtaaaaaaatg 480

tgcggtgattg gcataaaagt tgttgaataa agttgtgcaa cgaacactac ccgg 534

<210> 3893

<211> 545

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220060b09a1

<400> 3893

atccaatccc actggaaaagg ttaccttgta cgtaaagagt caaaagaaca gttattggat 60

ttgcgtttga ggatgcagaa gtctgctaga aatgtggatg acagcaagcg tctcataaac 120

agactcttgg cagcgctttc agagctactt aatatgaaga gtcttagtaa catccttcat 180

acttgttcaa cattggatat ggctacagga cattctaaga aatgttgtga agaacttgtg 240

gctgcagggg ctatcaacac cttgttgacg ctaattcaaa cagtcagccg gagtatacct 300

gaccaggagg ttctaaagca tgctttgtca actctccgaa atctcgctcg ctatcctcat 360

ctactacaag tgttgatcca gagtcgtagt tctgttcaga taattgtctt ggagttattg 420

aggaataaaaa atgaaggcta tttcgttgct tctgaacttt tgaagaagat atgttcaact 480
 cgggtaggcc ttgagacaat attcaagtcc cctgccctgc taaaacgatt gcacagtctt 540
 gttga 545

<210> 3894
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060b09d1
 <400> 3894

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 tttttttttt tttgggtttt tttttttttt tttttttttt ttattttttt tttatatattt 120
 ctttttttat cttttaggac caaaaaatcc ttttaaaacc aaaaaaaaaa aagggggaaca 180
 aagtccccaa gaaactaaaa aaaccactt ttaaaaaaaa aaaaaaaaaa acccttccaa 240
 aacccccaaa aagggggaaaa aaatctaaaa taaaaccccc aaaattttac ccccaaaaaa 300
 aaaaattttt aacaaggccc aaaaaaactt tgggggggaa aaaaaaattt ccacagcccg 360
 tgaaaaaccc taaaaaattc cacaccctcc c 391

<210> 3895
 <211> 586
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060b10a1
 <400> 3895

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 cgcaccccaa ccctgtggcg ctataccctc ctagatctac tctctaaccg ctatacaggc 120
 tggactaag agctgtgggt agtcatagat ggcgctctca gcttcacggg caatgtcaaa 180
 ggggtgtggtg gtatctgtgc ctgttctggt tctatctgct ttagtggcta ctgttttcct 240
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 ctccaatgtt aggagtgttg gtgttggtat tgggtgttctt gagtctagca gcggaatgt 360
 tccgttagcc acaaggaagg agtctagcag cagtaatatt ccggtatcaa cgaggaagga 420

ggatgttgag tgggtgaaga atcaaatacca agcaaattggg cttcatatgc atgacaatgt 480
gcttcgcaag ggtattaacc ctgcactcg ggctcagcaa cttgatgatc ttaaaccatt 540
taaaggcata tctcactatg agggacctga ttcagataat cacaca 586

<210> 3896
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220060b10d1

<400> 3896

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aaaatgtaaa cttcaagcta gcactattac aaaagggccc caaaaaataa taaaaatctc 120
cttgcccttg tagagtcctc aatcaaaatt acatatgggt cttctctctt tagaattaag 180
atctctggca cgagatgaac cactgagtaa aaaaaatgcc acctcttaga actcaaagca 240
aggatatcat cgaattgctg aagatttctc gtgatgaaca aagcacattt agttccatga 300
ggacatttag agatgtttct gatgcctctt tatagaatca atccagatat tatgcctttg 360
accgtctaaa ttcaaaccat atctcatagt gattgaatag taagctatca tgagtatgct 420
tccaagata ctcaagcccc aaacttgcaa gcctctttgt gcattcctct ccttccaacc 480
ttgaacagaa ctttatatta tgtgatacan agattcgtcc ttcataaggt tccatttaga 540
tgct 544

<210> 3897
<211> 578
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220060b11a1

<400> 3897

cgatcaaaca caaaatggaa aagaatgtgg ggattctcgc cattgacatc tacttccctc 60
ccgcttgctg tcagcaggaa gcattggaga ctcatgatgg tgccagtaaa gggaagtata 120
ccattggact tggccaagac tgcattgcat tctgtaccga agtagaagat gtcattctca 180

tgagtttgac agtgggttact tctcttcttg agaagtatgg gattgatcct aaacaaatcg	240
gtcgtctgga agttggaagc gagaccgtga tagacaaaag caaatccatc aagacattcc	300
tgatgcagat cttcgagaaa tatggaaata ctgacattga ggggtgttgat tcaactaatg	360
catgctatgg aggaactgct gctctgttta atttgtgtcaa ttgggtggag agcaattcat	420
gggatggacg ctatggactt gttgtctgca ctgacagtgc agtctatgct gaaggacctg	480
cccgaacctac tggaggagct gctgctattg ccatgctaata tggtcctgat gctcccattt	540
cttttgaaag caaattgaga ggaagtcata tgtctcat	578

<210> 3898
 <211> 467
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220060b11d1
 <400> 3898

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ggactcatgt ggtacatttt tctatctacc tcttaaaaat tagaaaaaaa aacaagcgca	120
accgaaagca acaagggaag ccccgaaaaa aaaccaacgg aaaaaagggc caaaaaaaca	180
accagggaga cgaaaaaagg gcacacaagg gggcaacaac ccgggggaaaa aagaaacaag	240
aaagcaagga gcaaaaaaca aaaggcgccc gggagcggag aaggcggggg gggccagggg	300
ggagcacaag cgccaggggc gggcgaaaaa caaaaaaccg gacgggacgg gcaccaacgg	360
gggccccggc cccccaaaaa cgaggagcgc ccatacggag ggaaaaaccc ccgcccccg	420
gggcaagggg gggaacaccc cggcgaaggg ccccccccg ggggggg	467

<210> 3899
 <211> 578
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220060b12a1
 <400> 3899

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atcacccggtg ctggggggtt tatcgcatca cacatagctc ggcgcctcaa gacagagggg 180
cattacgtta ttgcttcgga ttggaagaaa aatgagcaca tgactgagaa catgttctgt 240
gatgaattcc atcttgttga tctcagggtc atggataact gcctcaaggt tacaaagggg 300
gttgatcatg ttttcaatct tgctgcagac atgggtggga tgggttttat tcagtctaac 360
cactctgtca ttatgtacaa caacacaatg attagcttca acatgattga ggctgccagg 420
attaacggca ttaagaggtt tttttatgcc tctagtgtt gtatctaccc tgaatttaaa 480
cagttggaaa ctaatgtgag cttgaaggag ttcgatgcat ggccagctga gcctcaagat 540
gcatatgggc tatagaaact ngcaacagag gaattatg 578

<210> 3900
<211> 499
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220060b12d1
<400> 3900

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aaataattta gaacttctag tgcagtaaac catcttaagc accacgaagt gccttaaaaa 120
actattaaaa tacatcaagg cttccgttcc agacatgaac taccagcaga gacataagaa 180
atccttagca gctaattaaa cataaccaga taccgctatt tagttgctat atataatata 240
atccaactct tcacttgaaa cattaagggtg aatcctacta cagccatatt ttgaccacct 300
cattctttgc catctgcagc tcgaagtgtg cctagttgaa ctggggcttg agtctgcacc 360
actttggaag acccatacac agatatatca ataccttgag ccttctcctt ctcgatctgc 420
tccttaatcc agaagtatgt gattctcaac ccaccttca acctcatagt tggagcccaa 480
ccaagttttt cttttatca 499

<210> 3901
<211> 290
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220060c01a1
<400> 3901

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 aaaaaaaaaa aagacaaaca aaaagcagct gtccacaata ttagtctccc aagttcatcc 120
 gttgtcgctt attcgccatt ctttatcatg agttcatcct gcacagcgat gttctcggtg 180
 gaataaatca tcgtaacgtg ccgcacgatg tgttcgatta gtggtaaacac gatatgaatcc 240
 tctgtactc ggggtgcttc gtaaataaaa tccatctaca tgtccatggt 290

<210> 3902
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220060c01d1

<400> 3902
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 ggggggggctc ggcaccaagc tgcgggaaaa ttagcagcag cagaagaaga agacgaacgt 120
 gaatgagata aaaaaccaca ggtggcgtgg tggcgtggtg gtgtggtact tagcttagag 180
 ggataaccat gcctggtgta tggaatacgt gttcacattt atttaacagt tccacgtcaa 240
 cttcacgtcg tncacgaagg tgttgcgga gtggtgtaaa tagtggactt tggaggtttt 300
 gtttgccatg ttatttgtgg tagaattccg gttgtgttaa aatgtgtagt ttaaatagta 360
 aaatatggta ttttacattg aatttcggct ggaaggcgtc ggcggccaac ctggaaaaaa 420
 tttcgtcca cgattcagtt ttgccgtcat ttcattcata tcgggtgagg a 471

<210> 3903
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060c09d1

<400> 3903
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 aataagtttc ttcttgattg tcttttagact actatgttgc tgaagcattt ctgcgatac 120
 attaagtggc aatgtgtcag aatcaacaag acccagcaaa aagtttaggt acttaggcaa 180

cagttcatta aattcatctg aaatgaacac acgtctaaca tacaacttca ggttggattt 240
gtttgcgtta taatagctct cgtataaatc ttgaggtgcc ttaggtggtta caaacaggac 300
tgccttgaac tcgacatcgc cctcagcagt gaaatgactc catgctaaag gtttctcatc 360
actgaaatcc ttggcaagag agtggttagaa cttggtgtat tcttcttctg taaccttctt 420
tggattcctc agccatatag ctttcacatc a 451

<210> 3904
<211> 623
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220060c10a1

<400> 3904

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ctcctcctcc gctcgtgat cctgtcggtg cttccgatct cgctgctgct gcctcggacg 120
acgttgttgc ggaacctgaa attcacgcgc tgatttcaga cgaagagcac gatcacgac 180
acgatcacga gcatgagcat gagcatgacc atgacctcga gcacgatcac gagcatgagc 240
atgaccacca cgaggaccgc gatgatcacg ccgccgtggc agctgtctcc ttggaagatc 300
tcaaactcaa gatcattaag caggtggagt attatttcag cgatgaaaat ctgcccactg 360
acaagtatct gttgggtttt gtcaagagga acaaggaagg gtttgttcct gtatcagtaa 420
ttgcttcttt tagaaaaata aagaagctca cgcgagacca tgcatttatt ggtgctgcat 480
tgaaggagtc ttactgctt ggtgttagtg gtgacgggaa aaggttcaag ccgctcaacc 540
cacttcgttc aatgaattag agatcataag tatatactgc tttgtagaga tttgccagag 600
atcattcatg gagacattca caa 623

<210> 3905
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220060c10d1

<400> 3905

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caaattttctc gatatgattt tgttacacag attcctcgta aggtgaggat taccacaact 120
 agaacagttc tatgtttccc agcctaataa tcttaaaatg ggtatgtact tcaccaccaa 180
 cactcacttc caaagattga gatacataat ttaccagtcc aacaaaccca tgttgactca 240
 agcgaacacg catagggacc caagtaaaaa ctagtacatc actaaagcat cggacacata 300
 ataactgctaa atacaatccc tcatttgtgg cgtccaatct ttgctaattc gaagcaggga 360
 caggaaaccg acctcgctct attgcaagc cacgtgttcc atctggcatt cttgggtccag 420
 ggggtggctt cgatgcttcg gcagcatgag ttgatgggtg acttccatgg cccattccat 480
 ttccagcacg atatttatgg tttcttgatc ttccttgatt tctatac 527

<210> 3906
 <211> 569
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220060c11a1

<400> 3906

gcacagccaa actcaaagaa gaaagaagaa aatccagcga aagtaaaacc agcatccgaa 60
 aaagatgagc agcatcgga caggttacga tctctccgtc accactttct ccccgatgg 120
 ccgtgttttc cagatcgagt atgctgccaa agccgtcgat aacagcggga ctgttattgg 180
 gatcaagtgc aaagatgggg ttgtgttggg cgttgagaag cttattccgt cgaaaatgat 240
 gcttccgggt tccaatagaa gaatacactc cgttcatcgt cactctggga tggctgtagc 300
 aggattagca gctgatggca ggcaaattgt tgctagggcc aagtctgaag caactaacta 360
 tgacagtgtat tatggcgaac caattcctgt taaggaaactt gctgaccgtg tggctagtta 420
 tgtgcacctc tgtacgtat attggtggct cagacctttt ggatgtggtg tcatactagg 480
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 atatatcggg gctgcaattg gcagggcag 569

<210> 3907
 <211> 597
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220060c11d1

<400> 3907

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agggcattaa atcatcaaga agaatacaat atccaactat cgaagccttg tgtttctctat 120
agatgtttca aatgctcaat tacaaagtta tgaaatacaa ctttgaaata aacatttcta 180
gtccattaat ctgcatccat ttcttcaaga gctgctttgg ccgctgcctt tgctaattca 240
agaagctcat ctggtacctt ctcatgttgg cggtttgatt catcacacac ccagctcatt 300
tctaattcga aatctttgtc cttggcctcg tcatgaactc catatataat tttagccact 360
tcaataagcc cttgtcgaca tgtcatatca gcaagcttta acttttcaat ctctgtttta 420
gcagcctgcc tgcccttgcc aattgcagca ccgaaatata tataagaaac accagaaggt 480
tcgaccatgt acaactgtgg ttcattccctg tcataacctc ctagtatgac accacatcca 540
aaaggtctga gccaccaata tagcgtacag aggtgcacat aactagccac acgggtca 597

<210> 3908

<211> 512

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060c12a1

<400> 3908

cgtgtagcgg agtactaggc cgccgttaca cgtactgct gtccgtcgtc accgtttgaa 60
ttaccaccg ctactttgtc gtcattcttc ttcttcttcc cttttcattg accttttctt 120
tccttcgtcc tccaatggcg actgttccgc acccattatc cctcgcaagt gtaggttttg 180
ctaaccgaac ctctccatc tccagatcca ctctcaaata ctgcgctcaa tctccttctc 240
cttcactagt tgacaacgcc cagaagtttc tcgaagcttc caagaagggg aacgtcattc 300
ctctcttccg ctgcatattt tccgatcacc tcaactccgt gcttgcgtag cggtagcttg 360
ttaaggagga cgagagagat gtcgaggtt ttctctttga atcggtcgag ccaggccaaa 420
tttctagcat cggacggtac agtgtggttg gagcacagcc gtgtatggaa attgtggcga 480
aagagaacgt gggtactatt atggaccacg tg 512

<210> 3909

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060c12d1

<400> 3909

atcattaat accttattat gttcatcact tctgtcataa cattatcaaa gtttcagatt 60
ctccgtaatt catatcccct atcatctgcc cacaccacaa acttcctctc taccatttaa 120
aaaggatgca cacctcagtt atcaaggagc atcactgatg atggatcaat ccaaattatt 180
tatcaacaaa tgaagattct gcaagatcaa tggcacgagc aagagctgca gctttgttct 240
cgcactctct ttgttcatca gcaggatcac tgtcagccac aattcccgtc ccagcctgga 300
gatgggcaac ccattctctg cgtttgttct tacccttgta ggagtacatt gtgtcataac 360
gagcatttgt agggaaaact atggtcctca gagcaagggc tatgtccata tcgccattga 420
atgatatacc tccaaatccc ccactatagg gcccccttct tgcgacttcc aatcatcaa 480
tcaactgcat 490

<210> 3910

<211> 432

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060d01a1

<400> 3910

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ctggggccgaa ccagcacaaac gttggcaacc agggcaactg taccaacgca acaagccaac 120
cggcctgagc ggcctaagtg gccctggatg ggcggtaca tgtggcgat acccgcggcc 180
gtttagatta aaattgttgc agtaggcctg catttcacct ataataatag tggcattacg 240
tgtaacggtt atgcaagcga ggagagcga ggggatagag gtgggatcgc gttaaaatgt 300
aatgattggg tgattgggtg agagtagcgc ccataggggc ggttggccgc gcatgtgcga 360
..acaagcata gcggaaaata atgcgaaata ggtcatagtg ggtggcgctg gagtgtgggc 420
atgtcggaca gg 432

<210> 3911

<211> 597

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220060d01d1

<400> 3911

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gagggggcgg gaagctgaat cacataaacg accagaagta taaccaaaca gggtaagg 120
ggtgaccggc ggggataggg taggggtgat acctcttata ttaaccgaat aaaagcgctt 180
atagcgagag accaaaccag acaaaccgac ggcacggggc ctaatcgaaa caagagcgaa 240
aagaatagag aagataggta cgccaatggc acatgccgta atagcggcag cgctatcccc 300
gtagttaaag cagtgaccac cggggccgag cggtaatat tgccgataac agtggcaata 360
aacgaattta acagcggtta tagacttaat tggttagggtg gtatgggtgc gcntggtaaa 420
gttggttaacc atgggtgtagt tggattaaag ttgacgccct gtcacttcaa ggttactgg 480
atcgatctcg ctagctcatc gtagactgtg gtgagacgag tattgaaagg taaggatatgc 540
cattcgctcg ggataatcgt cgcattgcca aaattcgctt cggatttaat ggaagtc 597

<210> 3912

<211> 567

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060d09a1

<400> 3912

cctcgagtt ccttgatctc tcctctcaag atgcagatat tcgtgaaaac tttgaccggc 60
aagaccatca cccttgaggt ggaatcctcc gacaccattg acaacgtaaa agctaagatt 120
caagacaagg aagggatccc acctgaccag cagagactta tctttgcggg taaacaactt 180
gaggatggtc gcacccttgc cgattacaac atccaaaagg aatcaaccct ccatctctgtg 240
cttcgcctca ggggtggcat gcaaactctt gtcaagactt tgaccgggaa gaccatcacc 300
cttgaggtgg aatcctcgga caccattgat aatgttaagg ccaagatcca ggacaaagag 360
ggcatccctc cagatcagca gaggtgatt ttcgctggta aacaacttga ggatggaaga 420
acccttgctg attacaacat tcagaaggaa tccacccttc acttggtgct tcgtttgaga 480
ggtggcatgc agattttcgt cagactttga caggaaagac catcaccttg tagggtgaaa 540

gttctgatac atttgataat gtgaaag

567

<210> 3913
<211> 474
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220060d09d1

<400> 3913

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agacatagcc ttaaaactaa aaacattaaa gcagcaccta aataacagct gcaaccaacg 120
agttcaacat acactggaca taacaacaga gaattcaact aatattggac ataacagaca 180
gactcagaaa ccaccacgaa ggcggaggac aagatgcagg gtggattcct tctgaatatt 240
gtaatccgcc aaggtacgac catcttccaa ttgcttccca gcaaaaataa gcctctgctg 300
atctggtgga ataccctcct tgcctgaat ctttgctttc acattatcaa tggatcaga 360
gctttccacc tccaaggtta cggctctccc tgtcagagtc ttcacaaata tttgcatacc 420
accacgaagc ctcaacacca aatgcagagt ggattccttc tggatattat aatc 474

<210> 3914
<211> 593
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220060d10a1

<400> 3914

gaaaaacgtt gtcgttacca tctcttcgga caaaggcttt tgtggtggaa tcaattccac 60
gtctgtcaag ataagcaggg ttttgaacaa attgaattct gggcctgata aagagacaaa 120
atatgtcata ttgggagaga aggctaaggc tcaattgttg cgtgactcaa agaaacaaat 180
tgcgctcagc cttactgaat tgcagaaaaa tcccctgaac tacactcagg tgtctgtctt 240
ggcagatgac attctaaaga atgtggagta tgacgcatta aggattgttt tcaacaaatt 300
tcattctgtt gtacaatttt tgccaacagt tgcaactgta ctgtctcctg aggttattga 360
gagagaggct gaatcaggag gaaagcttgg ggaattggat tcatatgaga ttgaagggtg 420
cgagacaaaa gctgaaattc ttcagaatct ggctgagttc cagttttctt gtgtcatgta 480

caatgctgtg ttggagaatg cttgtagtga gcaaagagca agaatgtctg caatggacag 540
ctttagcagg aatgctgggg atatgcttga tcgtctaccc tcacctataa cag 593

<210> 3915
<211> 515
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220060d10d1

<400> 3915

attaaaatta gaaaaatctt attatgagtc atttcaaaaa aagacagact ccattcttcaa 60
ctgcaaaaac acaattccag aaatatctag tctcaaccaa gaaatcccca caatggggtt 120
gaccttgga cacttattac agaagtcaag taagattaaa aaaatgacac caacaaattt 180
caaaagaatc caacgatatt atcttaatat cgcgccactg ttgaatatat tacacagatt 240
gctctcctgt aattaacctt ccagtgtga agctccagag ataatctcta tcaattcagt 300
ggtgattgat gcttgacgag ttctgttata ggtgagggtg agacgatcaa gcatatcccc 360
agcattcctg ctagagctgt ccattgcaga cattcttgct cctgtctcac tacaagcatt 420
ctccaacaca gcattgtaca tgacacanga aaactggaac tcagccagat tctgaagaat 480
tcagcttttg tctgccacct tcaatctata tgaat 515

<210> 3916
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220060d11a1

<400> 3916

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ggcctgagcc cattgtccgg gttcagtcct tatccgaaaa ctgcgaagat tcaatccctg 120
aaaggtacat caagccttct actgatagac catccataaa aagttgtaat tttgatgatg 180
ccaatattcc aatcatcgac cttggggggac tatttggtgc tgaccaacat gtctcagcct 240
caattcttaa gcaaattctca gatgcttgca aagaatgggg cttcttccaa gtcactaatc 300

atggtgtcaa ccctgatttg atggacaagg tcagggaaac ttggcgtgaa ttctatcaca 360
 tgcccatgga ggtgaagcag caatatgcaa actcgccaaa aacctatgaa ggctactgga 420
 gcagacttgg aattgagaaa ggtgctattc ttgatcggag tgattactac tttcttcact 480
 atcttcctt t 491

<210> 3917
 <211> 511
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220060d11d1
 <400> 3917

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 tttagttaca ggatttaca ttaattatac atcaataagg tatagcgtgc ttgtaaactc 120
 ttgagaagta agaaaatata attcagacat aaaaatcata tataactatt aatttcttaa 180
 aattacatcc aaacatgttg tataaatgtg aaaccaatca cgataatagt gacttactat 240
 ttgatggaca taaaatgtaa gcaataaaaag cctatgagag aatggatcat ctgggagact 300
 ttaaagattc aatttgagat ttgcctcgag gtcctctcat tctaataag agtctgtatt 360
 catcgaaggt cattgctggg tagagtgagg gccttttcgg tgttacaagc tcttttattg 420
 gttctatggg tatgtcactt ttgggggttg agaaaaacgc aagagagact ctctctttat 480
 ctgaatntac tatcactctg tgcctcacac t 511

<210> 3918
 <211> 593
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220060d12a1
 <400> 3918

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 aaatatTTTT taaataagcc ttaagctcaa tcaaatttca aacaacaaat taacaaagga 120
 gctaagagga agaggatgat agcgggttat gtttgattga tgtgttacag tgatcatcaa 180

tatgagaatg ttgcctgttt gctcagccac cccaagttat tccacatctt cccagattcc 240
 cttgtttggg ggattgcacc caattcgaaa ggatcttgag agcagatgtg tggctgaaga 300
 aggtgtgcat ttggcttcac aatatggagc tcattcactg agaaattcat ttgcagtgc 360
 agctacaaag acagtattgg gcagtttttc ttctacaagt gaatcaggat accttacaag 420
 cacgtggggg tattcaccag tgctgacaga tggacatcat tcactgagta acgngaagt 480
 cagacacatg gaaagttatc atttatctac tgtgccagat gaacttgagg acttcgcaga 540
 acaggccact tgaggatcnt acacattagt gacaccagca caaccagaaa cac 593

<210> 3919

<211> 544

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220060d12d1

<400> 3919

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 cacaaatddd ttgtacaaat tgcatcacgc aaatacatc ttattatddd gacagtggaa 120
 attgtacca gcccttttgg cgtggcatgc atgcaacaaa atcaaacata atcatcctca 180
 tgaaatgttt ttttttcttt ctatattgtc aaaacgccta caggcagggc agagtccgtg 240
 gcagcacaga gtttggataa tttcaacttg caatdddcca atcgtggaag ttaaatttgt 300
 tgtgaccata ttaatctctc ttctaatddd catgttagca catgacaatc tagaatgatc 360
 tcatacatc tgattgagag gaactgtcgg ttcaggaact ggatcttggg taccttcact 420
 atcagatggt tgggattcat gtttggcagc agcctgcaat acccggttct gaacatctga 480
 tgatgaaggt gatgtaggta atcctaatac atttgattct aatdddccag cagcccatga 540
 aaat 544

<210> 3920

<211> 357

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220060e01a1

<400> 3920

tgatcatcgt ctagctatct cgatcgaaca tgtccaagcg tgctgtcac cagtaacaca 60
 gcagagctgg cactgtgagc gtggcaaaca acattcaggc atgatatcca gcctgcatca 120
 gaggcacgtg tgtacacaga gggataaata atgcccattg ataccaagg taatactgct 180
 aaaacgccga gtaacgatgc gtacaggtaa taaaaactgg ggaactgagc atgaacgatg 240
 agagccgacg gttgtggatg cattgacatg ttagaacggt aggacgggcg aagttacaaa 300
 ttacgttggg gaatgcctgt gtaagtgcgc catgaccaag ggcattgcgta gcgaaag 357

<210> 3921
 <211> 501
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220060e01d1

 <400> 3921

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 ggggggtgga ggggagggcg cgagaccagc tggcaaggcg ggatggcaat gaaacgagtc 120
 caataggcat ggataaggaa agtggttaaga aaggtagcta tatatacagg tagagagata 180
 gatagaagta aggatgtagt aaggggtgta gcattaggcg ctaccacgca gacagagatc 240
 aacatatgct agaccgctgt gatataggga gtgtagcgag ccgtcacatc gtgtgctgta 300
 tatcgatcgc agcggaata tgacaatcac accagtaaaa gttagacccc acttcggaac 360
 gcacattatg ccaagagttg aggcgcacgc acgtacacaa aagtttaaat aggccagggc 420
 gtagcataca gtaacacgca aacatagaca taaatatatg agacgcagcc acattatgac 480
 gagaaaaacg aaaaatgcag a 501

<210> 3922
 <211> 535
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220060e09a1

 <400> 3922

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 aactgatggc gagcgccatg ttaggggatg ctaccacgag ctttgaagat ggtaagttgg 120

cgtctatgac caccgatgac gtcgtcagag cctctcgtat tctcgaaaac gatattcgca 180
 ttctcaagga agaggtgcag agatcgaatc gggaatggga atcgtacaag gagaagatac 240
 aagataatga ggagaaagtt aaacttaata agcaattgcc ctacctcgtt ggtaacattg 300
 ttgagatatt ggaaataaat ccagaagatg aagcagaaga agatggttcc aacattgatc 360
 ttgactccca aaggaaagga aaatgtgttg tgctaaagac atctactcga cagacaatct 420
 ttcttcctgt tgttgggctt gttgaccctg ccaagttaaa acctggtgat ctggttggtg 480
 ttaacaaaga tagttactta atcttggatg ccctgccttc tgagtatgat tcacg 535

<210> 3923
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060e09d1
 <400> 3923

cccaaaagcc aaaaaaaaca aattttcaaa aaacccaaaa cccgggggaa accccccccg 60
 ggtgaaaaaa accaaccctcc aaaccctgcc ccccgaaaaa attttttaac ggggaaaaaac 120
 aaaaaaaaaa accgggggccc cccatgcccc aaggggcctt ccctacccaa aggcaagggg 180
 gggggaaatt gccccccccc ccccccgga aaaacaaaaa ggggttttcc cggatccaac 240
 ccctgcccc aaaaagtcccc agggggccaat tttccgggg ccccaaaaac caaagattat 300
 ttaaaaaaat tccccccccc gggaatttca aaccaagcc caaaaaacca tttaaaggc 360
 cgcgccaaaa aaattgcccc c 381

<210> 3924
 <211> 73
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060e10a1
 <400> 3924

gttcaatgaa gttctcgggtg tgatcgtttg tagatcgatt atattaatgt aatagatggt 60
 accagttatt cct 73

<210> 3925
 <211> 73
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220060e10d1

 <400> 3925

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 aacttcattg aac 73

<210> 3926
 <211> 559
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220060e11a1

 <400> 3926

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 gtctaagatt atacagatga tgaaggatga gaagctcttt gctccccaag gaggtcccat 120

 catcttggct caaattgaga acgagtacaa tcatatccaa cttgcatacg aagagaaggg 180

 agacagttac gtccaatggg ctgccaatat ggccgtggcc accgatattg gtgttccatg 240

 gtcctatgtgc aagcagaggg atgcccctga tcccgatcgc aacgcatgca atggttagaca 300

 ctgtggtgat accttcgcag ggccaaacaa accatacaaa ccagccatat ggaccgagaa 360

 ttggactgct cagtacagag tacatggaga tccaccatcc cagagatccg cagaagacat 420

 cgcattctca gttgcccgtt tcttctccaa gaatggaaat ttggtcaact actatatgta 480

 ccatggtgga acaaactttg gcagaacaag ctctgtgttt agcacaaccc gtattacgat 540

 gaggcacctc ttgatgaat 559

<210> 3927
 <211> 533
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220060e11d1

 <400> 3927

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tgatggtaca aaaatccaat gacatggtga gctcctggac tcttctactt ggccaagtta 120
 aaccacgaaa caagacctaa gcacacctca cttggactgc aagttgcttc accaaatctg 180
 ggcaagcatc cacgccattg ttgttgaaca ccgcacggtc caatgcaagc gtgcaagctt 240
 cttgccttaa gcattctcgc tccacgattt gcttgctggc agcagcattg cagcttccca 300
 ttgcaaagtc tccgcaataa ccaactggggt ttccaaagct tgcgaactcc actgccacta 360
 tccttttccc agttgcacac gccatcgaag ctgctgctcc aactgatttc actacaggat 420
 ggaaattgcc cctcctagac acccatgaat tcacgttcgc agggtccttc tctccaacta 480
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<210> 3928
 <211> 607
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060e12a1
 <400> 3928

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 tatttttatt tcttctttcc atctccatgg ggaattgctt gttcagctcg tacgaaacga 120
 cgacgacgac ggtgaagggt gtagttcacg acgggaggat ggaggagttc tcatacccg 180
 tgaagggtgc gtatctgctg cagctctatc cggcgtgttt catatgcgac tccgacgaga 240
 tgggattcga cgacgtcgta acggcggttc acgaggacga ggagttgagg cccggtcaac 300
 tctacttcgc gctcccgttg agccgcctca agcgtcacct cccgccgcag gagatggccg 360
 ctctcgccgt cgtcgacacc tccgcgctcg ccaaattgcg ctcccgccg aagcagattg 420
 tgtttctctc ctgctgcgat gtaaatacga agcctggccg gaaagttgcg ccggaaggta 480
 cggctctgtaa taatgacgtg gcgaggaaag gaaggagtaa aattggaggt aggggtatgg 540
 gcaagttcac tgctacgttg agttccatac ccggaacaag ggtagttttg gcaagagata 600
 ,caaatat 607

<210> 3929
 <211> 555
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220060e12d1

<400> 3929

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aatgttcaaa aattaatata tattttttcct ctttttttatt ttttaatata tacaaccata 120
caaaaaatta ccagcgaaca catattttta tctctttcca aaactaccct tgttccggtg 180
tggaactcaa cgtagccgtg aacttgccca taccctacc tccaatttta ctcttctctt 240
tcctcgccac gtcattatta ccgaccgtac cttccggcgc aactttccgg ccagggttcg 300
tatttacatc gcaggaggag agaaacacaa tctgcttccg gcgggagccg catttggcga 360
gcgcggaggt ggcgacgacg gcgagagcgg ccatctcctg cggcggtagg tgacgcttga 420
ggcgggtcaa cgggagcgcg aagtatagtt gaccgggcct caactcctcg tcctcgtaga 480
ccgtcgttac gacgtcgtcg aatcccatct cgatcgagtc gcatatgana acacgccgat 540
agagctgcag cagat 555

<210> 3930

<211> 97

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060f01a1

<400> 3930

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tataccgtaa gcgcgcggag gtagtgggga taatagt 97

<210> 3931

<211> 334

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220060f09a1

<400> 3931

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atctttcatc agatctcaat ccaagttcag taatattctg gcagccaaac ctcaatgaca 120

gggtgaatca tatggcatct tcaaataata atcaactttg tatactgtct tctctttcat 180
 agtttgata aagagaaaac aaacacaaat gctttagaat cataggtaaa atcttgata 240
 tataatatac ctataattac tcaccaagaa agcatgctag tgaacaacta ttactcagga 300
 gatgttttat gttatacata cgagcatttt tttt 334

<210> 3932
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060f09d1
 <400> 3932

aaaaaaaaatg ctcgatatga taacataaaa catctcctga gtaatagttg ttcactagca 60
 tgctttcttg gtgagtaatt ataggtatat tatatataca agattttacc tatgattcta 120
 aagcatttgt gtttgttttc tctttataca aactatgaaa gagaagacag tatacaaagt 180
 tgatttatat ttgaagatgc catatgattc accctgtcat tgaggtttgg ctgccagaat 240
 attactgaac ttggattgag atctgatgaa agatcttata ctgtcccaaa gtgagaaatt 300
 ggaagcgaat tatctgacca tcactgactt tttt 334

<210> 3933
 <211> 576
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220060f10a1
 <400> 3933

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 agatctccga gttcaaggaa gccttcagcc tcttcgacaa ggacggggat ggttgattta 120
 ccaccaagga acttgggacc gtgatgcggt cacttggcca gaaccaact gaggcagagc 180
 tgcaggacat gataaatgag gttgatgctg atgggaatgg taccattgat ttcccagaat 240
 tcctgaatct catggctcgc aagatgaaag aactgattc agaggaggag ctgaaggagg 300
 ctttcgcgt gtttgacaag gatcagaatg gttcatctc tgcagcggag ctccgccatg 360
 tgatgaccaa tctcgggtgag aagctgaccg acgaggaagt cgatgagatg attcgcgagg 420

ctgacgttga tggatgatggc cagatcaact atgaggagtt tgtcaaagtc atgatggcca 480
 agtgaggacc aatcaaccat aacaaataaa aattgaaaaa cacctgaaca gaaaaaagac 540
 agggcagata agctttgatg agaattatat nttcat 576

<210> 3934
 <211> 589
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220060f10d1

<400> 3934
 aaaagcacia attgcaacca attgttccag gttcatagta gtaacccaaa aaagatgaaa 60
 agtgaagtac aaatgcatgg tgagacacat ctaatccaag ctactaaaac aaggacagag 120
 caaacaagta gaaaatacta atgagcaata ccaataaata aaagcaaaca aagccgacca 180
 acaaaaaacta atgaccccaa atgaagattg tcctaataaa aatataattc tcatcaaaac 240
 ttatctgccc tgtctttttt ctgttcaggt gtttttcaat ttttttttgt tatggttgat 300
 tggctcctcac ttggccatca tgactttgac aaactcctca tagttgatct gaccatcacc 360
 atcaacgtca gcctcgcgaa tcattctcgc gacttcctcg tcggtcagct tctcaccgag 420
 attggtcatc acatggcgga gctccgctgc agagatgaag ccattctgat ccttgatcaa 480
 cagcgaggaaa gcctncttca gctcctnctc tgaatcagtg tctntcatct tgcgagccat 540
 gagattcagg aattctggga aatcaatggt accattccat cagcatcaa 589

<210> 3935
 <211> 590
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060f11a1

<400> 3935
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 gcgtgtccag cgattccgct ctccgacgag tctgagcagg ctcaagagtc gcgaggccag 120
 ccgccggtga agaatcgcgc gattcgtctg gaaatcgaga ttcaagcagc attcatcccc 180

gataaagata ttcaaccacg attcaggaac aaaaacgaga caacctccga ttcgtatcgg 240
tagcagctgg aatcgtatcg aatcgtgcga tacgtatcgt gaatattgaa aatgaagttt 300
cttgattggg acctgaagat tggggttgtg tcggctctgg ttggggcttc tatggagttg 360
ttcatgatca aaactggatt ctatgacaaa gtaactgttt tggagtcaga aaagcgtgcc 420
tgggagaatt cgctgatgc tcaggcaatt agagaagctc taaaccctg gagacagatt 480
gacacagaat aaacaaagaa gtcctgactc aattatgaat cattttctta taatccatga 540
gtggatttaa agaactcaaa gtgttatgtg agaatgtgcg gggaataact 590

<210> 3936
<211> 396
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220060f11d1

<400> 3936

aaaaaacct tgggtttttt ttttttgggg ggaaaaaagg ggcccccccg ggggcttggc 60
caagggggggg atttgcccc ttttcccaa aaaaccggg gccctttttc agggggcaaa 120
aaaaaaaaat tccaccctca aggcccgatt gcaaaattgg gggggggggg gccccccca 180
aaggggcccc tgattggggg gctccccccc aagggggggc caccaggggg gggggggggg 240
aaaatccccg aacccttttt ataacagaaa agctgggcca aagggtttta ggttttttcc 300
cccccttttc caaaaacct tgggggtttt taaaaacccc ccggggtttt aaaaaaagg 360
ttcctaattg gggcggggcc ttttgggttt ttcggg 396

<210> 3937
<211> 568
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220060f12a1

<400> 3937

ctctagagta attgcggaat cagctagaat tttctaataa tggccaaaga cgttgagcag 60
gttacagagc aaggtgaata ctccggaag gattaccatg acccacctcc ggcgccgttg 120
atcgaccag atgagctcac taagtgtcc ttgtacagag ccgcatagc tgagttcata 180

gcaacactcc ttttccttta catcaccgtg ttgaccatta ttggctacaa gagacagagt 240
gacaccaaaa tccccggtaa caccgagtgc gacggcggtg gcattttggg catcgcttgg 300
gccttcggtg gcatgatctt catccttggt tactgcaccg tcggcatctc tgggggacac 360
atcaaccctg cggtgacatt cgggttggtc ctgggacgca aggtgtcttt ggtgagggcg 420
ttgttgtaga tgatagcaca gtgcgccggt gcaatctgcg gtgctgggtt ggccaaaggg 480
ttccagaaat cgtactacaa cagggtacgga ggtggagtta acactgttag cgatggctac 540
aacaaggtta cccgttttgg gagctgag 568

<210> 3938
<211> 434
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220060f12d1
<400> 3938

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gaaagaaatt aaataaaaaa aaaaaacaaa aaaaagggga taaaataca cccttgacat 120
aaaagcattc ttatctacaa attcaagagc cccaaaccca cggatatttg cttttgcccc 180
aaaccacagg gtaagcagaa aagccaaaaa ggaaggaact ccaagaattg aactgaaaca 240
ctgttattgt tttgggtgac acaggacaaa tgatcataat ttaggtagtg gagattatta 300
attaaggggt gtcctgaat gatccaagag ctttgattgc agcagctcta agaattgatt 360
gatggtagaa tgcagccacc gtagctccaa caaacgggtc aaccagtaa atccattggt 420
cgtcccaggc tttg 434

<210> 3939
<211> 276
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220060g01a1
<400> 3939

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ggacaggggc ggagggggag ggggagggga gaccgtgtga ggaaggggcg cggttgagtc 120

gaatacacaa aaacaaaacc atacaagtag atgtatatat atccactgtg caattaaagg 180
aaagcaggca caacacacac tcaagaaaaa aaacacacgt aaattgaatt gggtttcaaa 240
ccgagtcggg gcgtttggtg gccgaatttg attggt 276

<210> 3940
<211> 378
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220060g09a1
<400> 3940

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tgatgcttgt acgtcttcag ccctatgcga tattactgtc ttggattgct tgaatgctag 180
cgaaataaca ttccctattg tgcaggactt ggaaaagggt ccttacgcgg agattgatcg 240
agcagtttta tctgaatcag tactgatgta agtgggtgtg tgtgagatgt acgggtgact 300
gaattgaagt cagttatgct tcacttgcac gtgacgaggg cacctgttct gacataaggt 360
actaccgtgg aaacagtt 378

<210> 3941
<211> 365
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220060g09d1
<400> 3941

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gttgaagcta cctacgtgtc cattattgga ctaggaatct taggagttga agctatgttg 120
gtcatgcagg tatctaggag cccggcatac cgcgttttcc ctgagtgccca tcccgtggg 180
acctatctat ctgcagcggg aactacggg tggctccctg gcttaacgtc gccactgctt 240
tagcggcaaa cactttcggt gcattgtgtg tccatgacct atgggcacct agccctagag 300
actttggatg cttaacccga cctaccggag cggacctgcc tcgtgattca tgacctagat 360
catgc 365

<210> 3942
 <211> 610
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220060g10a1

<400> 3942

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 gcatgtggga atctattctg ttaacgggtgg ctgccaccgc tggcaacaac atcggaagaa 180
 tccttcagaa gaagggcact atcattcttc cacctctctc tttcaaactc aaggtcataa 240
 ggtcttatgc ttttaacaaa acctgggtgg taggttttct aatagatata tttggggcat 300
 tattgatgtt aagggcattg tctctggctc cagtctctgt catccaacca gtttctggct 360
 gtggactagc aattctttca atcttttctc atttttatct caaggaagtc atgaatgctg 420
 ttgattgggt tggcattaca ttagcagggt ttggcacaat aggagttggt gctggagggtg 480
 aggagcaaga ggtggttgct ctatctattc ttcacatacc agggctggca tttattggtt 540
 tcattctgtt tatacttctt agtggatggt ttcaatatgc aagcgccaac gaagagaaca 600
 agagatgatg 610

<210> 3943
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220060g10d1

<400> 3943

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 ggtatgctat catcactgtc atatacaatc cttgaaagca aaaatagtgt aagttcatga 120
 atagttttta caaggtggca tctgaagtta acaaacattt catccaaaat gtgtgagcca 180
 gaagcaatga atgatcacca aaatgtcatg ccctctgatg aagcgccact ataatatata 240
 gaattggcct tggcagacgg attagaaagc aacttaatgc ttagaaatcc tggggatgaa 300
 ggaacattat ccagctcatg tcaactcaag ctttttcttt ggaagatgat gatagtaaat 360

gattttaatgt tgctgcttga atgacagcac ttggacttgg ttctctcaca cggaagaag 420
 tggctcctct aaggccaaaa ttcttctcca cattgttctt ttnttgctgt gaagaacang 480
 aaaggaatct tactaaccgt gtagaaccaa catgtaaaat cacaccaacc ataataagta 540

<210> 3944
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060g11a1
 <400> 3944

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 tggctcgtgg gcacgccgtt ctctgattgt tctggctatc atttccttcg gatgtttatt 180
 tgcaatttcc attgctaagg aggaagccac aaaattgggg acggtcatcg ggattgatct 240
 tggaacgacc tattcatgtg ttggtgttta caagaacggc catgttgaaa tcatagccaa 300
 tgatcaaggt aaccgtatca ccccatcgtg ggttgcttcc accgacagtg agagactaat 360
 tggagaggct gccaagaatc tggcagctgt caaccagaa aggaccatct ttgatgtcaa 420
 gagacttatt ggaagaaagt tcgaagataa ggaagttcaa agagatatga agcttgttcc 480
 ttataagatc gtcaacaagg atggaaaacc ttacatacaa g 521

<210> 3945
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060g11d1
 <400> 3945

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 aagtatctta tcatcgccac caaaaaagca agcgcagggg acttcttaat tcccagctat 120
 cataaaaaatt taacagactc cgactaatct agagctcatc gtgagaatcg tctcgtctt 180
 ctctgcctga tgcaccacca ccgctgggg ctctccaga tctctgatac acagcactaa 240
 tgattggggt gcaaacggct tcaacctcct tcagcttctc ttcataatct tctttctcca 300

tactctgggtt gtcattccagc cattccagtg cttctttcac agcagttctca attttctcct 360
 tttcatcaga ctccaacttg tcagcgagct tgtccttgtc actgatctgg ttcttcatgt 420
 tgtatacata ggtttcaaga ctgttgcgag ca 452

<210> 3946
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060g12a1
 <400> 3946

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 ttggagcaag aacttgaacg tgcaagacag cagggaaatgt atataggtgg tgggttggtat 180
 tctaatactc tgggttttgc tggatcagta aattcaggaa ttacaacctt tgagatggag 240
 tatggacact gggatgaatga gcaaaataga caaatcacag aactgagaaa tgctttaaat 300
 gctcatattg gtgacgtaga gctcaggatt ttagtagatg gtatgatgag ccactatgcc 360
 gaaatgtttc gcatgaaatc tgctgctgca aaagcagatg ttttctatgt tatgtccggt 420
 atgtggaaaa caacagctga aagatctttc ctgtggattg gaggctttca cccctcggag 480
 cttctaaagg ttcttgggtcc cctgattgaa cccctgacgg agcaacagcc gttgaatata 540
 tataaccttt gacaatcatg tcagcaagca gaa 573

<210> 3947
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060g12d1
 <400> 3947

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 gggttacccc cataaatggg aaagcccggg attctagttg gaaaaggggg gctgcctgga 120
 aatgttttta gggatcaagcc cccaatgggt ttcaccaaag atgatgccgg gatttaaaaa 180
 aattctggcc gggctctttt taaccaagtt ggggggcccc aaatctttgt tgaagcccac 240

tgactggctt cctgaggggc aaattttggg ggggatgcct tggactatgc tatatcaaag 300
 gggggagatt ctgcccggaa tcaagaaatg gttatatatc cgggtagctc caagggggtc 360
 atcaatccca ttttctataa gggaacaaat cctgctagct ggactttt 408

<210> 3948
 <211> 545
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060h01a1
 <400> 3948

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 gtgataatca cgagtaaccc cgaacacccg gcacgtcacc agtttgcaca tatcgccaac 180
 gttgagcgtg cagtttgcac gtgatagtaa ccaaacatca ggtacacacc gtggggccata 240
 agggattagc attaacggat aggcgaaatt acggggtttg gatgtttagt ggttagcgtg 300
 catgatccat cctagcgagt tgggtgtgat atgtcgcatg tgtttttatc agtcatcgct 360
 attgtttgta cctttcccat tatgtgtagt actagtatgc aggttagtta ttggtacgag 420
 ttgccggcaa ggccaacgcc agccatgcgt ggcagtgggc ggggaaaagt gcaaaaagta 480
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 tgagg 545

<210> 3949
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060h01d1
 <400> 3949

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 gggggggggg gggcagggcg ggcacagagg aaattgagtt tagaaggga atacggctaa 120
 aaggatagta ttatagtaac accgattgaa aacatagaat taaagaaaaa aggaggtgta 180
 ggggggtatat aggtaaggaa atagggaatg ctaacaaaag gcacaaggcg agtaaagaca 240

atggagggga gtagttaaag cagcaaagat atacaagtgc atacgagtgg gtgcttggca 300
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<210> 3950
 <211> 516
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220060h08a1

<400> 3950

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 ctcaccaagc gatgagagtt cccgttcctt catccccaca ggccaaccca aaaccaccca 180
 ataacgttgt ccgtaccatt gcccttccca acctcaacaa tagcaccacg cccccacgg 240
 gcctgtgcta cgagcccact tctgtccttg acctgtgccg gagcccagac ccgggcaccg 300
 aaaagcccac caccgatcac tccgttctcg tcaccaactc ccaagactat ctcgacctgg 360
 aagaccatgc gttgcaacaac ttggactggg actccatcat gaaggacttg ggcttacacg 420
 acgactccgn ccccccggtt ttgaaaactt ttctccaacc cgacgacgac gacgacgacg 480
 acaaccacaa caaccatca tgcgacgact tcacac 516

<210> 3951
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220060h08d1

<400> 3951

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 tatcatgcc aaaaagcacc agttcgttct ggcgttttgc cacgtgaaat cctctgattt 180
 gagacttcgc taacaggcac tctgcttgaa aaaccggaaa ctggcttaac tggaccgggc 240
 ttattccggc gccgtaaaac gccttccttc acgggggaac ccggcggcac gcactcttca 300

ccggcgggcaa aatcttcggc cgcagctgca tcctctcgat tctcctcacc cactccccctc 360
 cggcttccac cgctgacgcg tccagcgact ccagcatca 399

<210> 3952
 <211> 576
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220060h09a1

<400> 3952
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 cggataaaga tcgtgacttt ggctgattct ggaaatgggt tctcggattc agcttctgcc 120
 tatttgcttt tggctgcact tgacatgctt cagcttcttt tttggtagca tagtgagtgt 180
 gagaggagat gcaactgtgc aagggagtggt tgccattgat ggcaaggctg tgattggaac 240
 cattgatgag gattttgtgt gtgcaacttt ggattgggtg cctcctgaga aatgtgacta 300
 tgggagatgc agttggggcc ttgcttctct tctcaatctg gacctcaaca acaagatttt 360
 tttaaatgct gtgaaagcat tttcacggtt gaaacttaga ttaggtggaa gtttgcaaga 420
 caagctaata tatggcactg aagataatca ccaaccttgt actccttng ttaagaacct 480
 ttctgagatg tttagnttca cgccaggggt cctcccaatg gatagatggg atgaacttaa 540
 ctactttttt gaaaagcagg ggctaagatt atcttt 576

<210> 3953
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060h09d1

<400> 3953
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 agtaaaagca tataataaaa ccaccaacat cctagttctc aaactaaata attggcattc 120
 tcttatggaa actaacacat tttattttcc atgtaatttg ccaaaccacc tagtgaaacc 180
 aatttttttg gtctccccta gtgccactta gtacttagcc gcaagctgaa acaacagcat 240
 caggtaaag agcaaataca atagagaaag gagcaaccct tattggctct gatgaattca 300

catttatagg ctccaaagga ggaatatcac catctgagct tacactcaga gggtttccat 360
 ttagtaccat gatttggcta tgtatatccc catcctgtgg agttagatgg tactcttctc 420
 ttgctgggttc acttgcaaga ggtagttcca tcacttttga atgagtagac atctttct 478

<210> 3954
 <211> 228
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060h10a1
 <400> 3954

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 agacatgaaa aatagttggt aaaaggatcc cagttattga ctacctcttg ttatttgccc 120
 caaccctat atagtcacat cgtttcgctg ttgagccta attaattaat taattaatta 180
 tggattttta atgtacattg gtgcctgaat cgagtttatt tgttgtct 228

<210> 3955
 <211> 305
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060h10d1
 <400> 3955

catgatcaga catctaaata accctattaa ggcaccaatg gacattaaaa gtgcgttact 60
 tattgattaa gtggataggc tcgaacagcg aatcgagacg actatattgg ggttggggcg 120
 aatcacaaga ggtatgtaac aactgggatc cctttaacaa ccatatccta agtgaacta 180
 cccataccct acctggatgc ttgatgaaac tgattagcat ccgaggggaac tggattctcg 240
 agccgaatgg cgaacgtaat ttggcgatgc tgccaagcca taggtttctt aaagggttgc 300
 ctaaa 305

<210> 3956
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220060h11a1

<400> 3956

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tccctcagca acagaaatat ccctctctct cactttcttc gacctgttct ggctcaggtt 120
ccaccccggtg gaacgcatct tcttctacac cctccctaca cccattcaa atccatccat 180
tttctattcc aaacttggtc caaagctcaa aacatctctc tctcgactc tccaacactt 240
ccccctctc gccggcaacg tcgtttggcc tgataacacc ccaaaccxaa ccgtccaata 300
cacccaaggg gactccgttt cacttggttg tgctgaatcc gaagctgatt tc 352

<210> 3957

<211> 515

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220060h11d1

<400> 3957

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tacaaaagag atccatgaca tgtttcttca gcacgagccc aacttgaaca ccatcattcc 120
cattccttgt ctctgcaaac ccaatgggta aggtctctatc caccgatgct atctccacct 180
tagcaggctt tccccaacca aaatcagttc cataaactcc aaaccgggta gaccctgcaa 240
ttcccatgat ttcaactccg tcttttccca aagactcata tctagaaaac gcactttcca 300
tcccatgaaa aatccccctca tctaataatca tctttatattt actatgaata ctctttgcaa 360
caatagcaaa agctttcttcc tttatgaagt ccaatgggtc agcatccacc acatgcccc 420
acacacaatt gccaaaataa ttatcatgga ttggagggtc caacctngcc ctgcaatcca 480
ctgtgaacgc aaaagcaaatt ttctctttct ctttt 515

<210> 3958

<211> 536

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220060h12a1

<400> 3958

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 cccttggtga agctgttata tgggtcttggt ttgtatacta cactgttgga tttgccctg 120
 ctcttgaag atttttccgc tacatgcttt tgctatttat gcttcaccaa atggcattag 180
 gtctcttccg gtttatggct gctcttgac gcgatatggg cattgctaata acatttgga 240
 cagctgcatt gatgattatc ttcttgctgg gaggatttat tatcccaaaa ggatgatta 300
 agccatggtg gatttggggg tactggttg cactcttac ctatgggtcaa agagcaattt 360
 cagtcaatga atttactgcc acaagatgga tgcagcattc ggcttttggg agcaacacag 420
 ttggccttaa tattctcaag ggattcgata taccagctga ggattactgg tattgggttg 480
 gtttgggagn tttaacactc tacgctctta ttttcaactg cttgggtcact ttgggc 536

<210> 3959
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220060h12d1
 <400> 3959

gacagcaaca ctgatgacat tccattaatt ttagtgtcat attcaagagt agcagctatg 60
 aattctttca cattgccttt aaatccaggt cccacgagca tttcttccac atcaccaagt 120
 tgagatgtga taataccacg tagtgtccaa gaaactgggc agagataatg gaaccacatc 180
 caccatacag gtatatgaga ttttgggaata agaaatccgg atacaagatt ccatagagag 240
 taaaatgcag aagaaataac agctgcaaag tgttgtgtag gtgtaatgcc aacagccatc 300
 atgccgtaaa aggtgaagta cataaatgtg aggaacatga acacaagata gaggaaaaac 360
 tttccaacat ccttttcaaa attgaccatg aaatatgtga ttacaccaa tactattgtc 420
 tgaagagcaa catatgggat ctccaccagc cctgagcta ttgcgtatga gattggagag 480
 tacattccag cagccttctc tctataaaac act 513

<210> 3960
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220061a01a1

<400> 3960

gatcagacaa cactgagcat cgtctagcta tctcgatcga actgtccaag gtcctgtcac 60
taagaataga ctagacacgc acaacgcaca acacaaaaag cctaagtgtt agatttacga 120
cataatgggg tagacagcca cagccaaac gtttgtggtg taataagtcc gggttcagta 180
gtaattttgt gatgcaacat agtagaccct agaggttact tctgatgaac caacagcggc 240
attggctcgc ccacgtggtg aaaacacttg gggtttagaa taaacgtaaa caggccgtgg 300
tagtgttccg tgtgcggtgc gtgtgtgagt ggtcacttag cgtggtaaac agaatacaca 360
aaaaccagca atgaccaacg tggcaagtaa ggcaggcgcc aaaattatga gagcaactat 420
gcctacattg ccagcagcgg aggccaacag ggaatgatga gcttcactgc t 471

<210> 3961

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220061a01d1

<400> 3961

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gggggggggg ggggggtataa agaaccagaa aagtaatgta ctttcgtagg aataaccgtt 120
agccaataag ggtacgcgga gatagagcta taggaggggt gtcaaggaac agtagtagta 180
taaaggaacg gtttttataa tggaggtagc ttacagggga caatactaag gtagagtata 240
ctgggcaacg tcatggagat tacttttatc cggtagtaca gagcgatggc cgtatggctg 300
gtatatggaa agacggtgtc aggttttagg tgttgacggt atcattaaaa ttatgatcgg 360
gaatgttggt ttagccantg gcaagcaact ggccggcact ataaggaggt tagataaggt 420
tacttgcaag acttgggcag agctctgtct agtgggtgac agt 463

<210> 3962

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061a02a1

<400> 3962

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atgtgccatt tggcagaaac tatgtgcta cttgggcctt tgatcacatc aaatacctca 120

atgggtggttc tgagattcag cttcatcttg ataagtacac tgggtactggc ttccaatcca 180

aaggatccta cctgttttgt cacttcagca tgtacataaa attggttcct ggtgattcag 240

ctggcacagt cactgctttc tatttatcat ccacaaactc agaacatgat gaaatagact 300

ttgagttctt gggaaacaga accgggcaac cttacatttt gcaaactaat gtgttcactg 360

gtggcaaggg tgacagagaa caagaatct acctttgggt tgaccctaca agagaatacc 420

acagatactc agtgctatgg aacatgtacc agattgggtt ctatgtggat gactacccaa 480

taagggtatt caagaacagc aatgacttgg gagtgaagtt ccatttaacc aaccaatgaa 540

gatatacaac agtttgtgga atgctgatga c 571

<210> 3963

<211> 402

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061a02d1

<400> 3963

gattgaatta caaatccaaa ttaaggcaca ttgccatttt ttttggtaca tagctcaaac 60

aggtttacat cccatagctt ttgcagcagc aataaatgag gatttaaatt ttcagcaatc 120

caagccataa acccaaattg aattttgtat caacacttag ggggggcctt catgaaatca 180

aggaaatggg aactttatgg gaggggaaat aaaaatagga tttggaagct tattttaaaa 240

tatatttttg gggacaaaaa aattcccat gagcaaaatt agtggaaaat tgcccccccc 300

aattttttga tgagcccaat taaatgtccc ggcctttggc cccctttgga aaaacttgag 360

ggtaacgttt gcggcccgag caatttttga aaaaggggaa tt 402

<210> 3964

<211> 521

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061a03a1

<400> 3964

aatatggcca ccaccactac ccagcctccc tctaatatct gttttttcct tctgttggtg 60

cttctagcac actttcattt gggcataagc caacttgagc tgaattacta ctctaaaagc 120

tgcccaaaag ctgaagagat catcaaggaa caagttacac aactatataa caagcatgga 180

aacactgccg tttcgtgggt cagaaatctc ttccacgatt gcgtgggttaa gtcatgcgat 240

gcatcattac tgttagcgac ggtgagcgat gtagtgtcgg agcagacatc ggatagaagt 300

tttgggatga gaaacttcaa gtacgtaaac actatcaaag cagcggctga gaaagaatgc 360

cccttcacag ggtcatgcgc tgacattgat gctctttctg ccagagatgc cattgctttg 420

ttgggaggac caagcattga aatgaagaca gggagaaagg acagcaaaga aagctatgca 480

atggacgtgg atgacttgat tcccaaccac aatgatccat g 521

<210> 3965

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061a03d1

<400> 3965

gaaacaaacg atttttttat tttgtttctt tgtatttttt ttaataacgt gtttaaataa 60

aatataaaaa ttcattctac ggggggaaaa cagagacaag ataaaaaaaa cccccataa 120

aaccaacagt acaaaaccgg gaaaaaacca gacatgaaca ctttcagtta gggaaaaaaaa 180

aaaaagccaa cccacacaa gagacagaaa aacaaagtat atggataacc gacccaacc 240

caagggaact aagatgaaac accca 265

<210> 3966

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061a04a1

<400> 3966

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cgtggccaac ccacgacgat ccaacggccg agatgtactc cgcgttttta acaaacgacg 120

tcaatgctgg tgagtactct ccgtactatc ttcaagaagc actaacggct ctgcagcggt 180
 ttctgccgtc taacgaaacg gacgctgact cggacacgga ggctcaaccg gacgcggcgg 240
 tggacgcgta ctcgtgacgac catttccgca tgtacgagtt caaggtccgt cgatgcgcac 300
 gtggcaggtc acacgactgg acggagtgtc cgtacgcgca tcccggcgag aaggctcgac 360
 gccgggaccc gagaaagttc cactactccg gcgcggcgtg cccggagttt cgcaagggaa 420
 actgcaagaa aggcgacacg tgcgagtctg cgcacggcgt ttcgagtgctc tggctccacc 480
 cggcgcgcta tcggac 496

<210> 3967
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220061a04d1
 <400> 3967

aggataaaaa tatacatata cataaataat ttgaataaca agattcctct tggatcctac 60
 atatttatac atttgtagat caatgagatg agattagcaa gtaagtgaac ataacagaca 120
 cgatagagtt aattaagtaa catagcacat gataataata atagtaattc gtaataacaa 180
 caatagtaag ctaactgtac aaaaggcttc ggatactttc aatttcccaa atcaatagag 240
 cgatgttgat gaatttccaa gacaaactcc ccaaaaaaga gatccttcac ttcttctctt 300
 cagtctttac ccaataacca taccataaca taccacgaga tagaataaaa aatatttaca 360
 cagactcgca tctcccaaaa taaatctgca ttgctaaata ttaataataa tatcagttaa 420
 ccagctccga gaccacacca acatccggag caccac 456

<210> 3968
 <211> 561
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220061a05a1
 <400> 3968

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 aataacaccc atcaaacaaa ccacacttct cccctccctc ttgaaaacac ctcaatcaat 120

ctcgatgac atggcagcac tcaattcaag cacttggtgcc aaacctcaat tccctcaccc 180
tctctcctcc tctttctctt cttcttcac attacaaga gatttgggct tccccacaag 240
gtttcagaag aagccatta gaaagggtgt ggattgtgct ctacactccc cccagtgat 300
ccatttccca aaccagccct acaacaaacc tgaaattacc aaagaaccca ccacctccac 360
cgcggaagg cctcagtga acccattcca aaaagccgca gcaaaggccc tcgacatgtt 420
cgagagcgcg ttgctctcac gcgagctcaa ccaacccttt cccaaaacca ctgaccacg 480
cgtncaaatt gccggttaact tcgccccgt ccggaacacc ccgtcgacaa tctctccccg 540
ttattggcac aatccccgac g 561

<210> 3969
<211> 446
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061a05d1
<400> 3969

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aattcttttt taaaacaaaa gaaaggaagc aagaacaga aagcagctga gcttcatcca 120
caactacaa gctgattcgc gaaagcatag ataaatattt attattgaga agggtagaaa 180
aggcaacaaa atgtttgttg tctgaaatgt gttttaccgt ttaagcgacc aaataaaata 240
gtccaggtgg acttcaatga gcctccacaa acgtgccatg gaagccatag ggactcttg 300
aaggcagcat gacagtggcc tccaacttca aatcaagtgc attcagaatc tgcaactcgg 360
actgccacgt catctcgtca tgcacaaaag ccatcacgta cccttcatcc tcattcccat 420
tccctccacg tggtggcaag aagaat 446

<210> 3970
<211> 590
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220061a06a1
<400> 3970

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gacgttgaaa atattacgag agagaaacgc aaggagagag aggaaaacca aaaaatgggtt 120
gtttccaagg tggttgtttt tcttggtctg attctcgccg cccttatgtc agtggcttgc 180
tcccaatccg ctgctccggc tctgctcct gctcccacaa gcgatggcac ctcaattgac 240
caagctgtag cgtatgttct aatgttggtt gccttggttc taacttacat catgcattaa 300
ggcaactacg agcaatgaca cgccctaaat taattgatga gggctatagg gcatttttat 360
ttcaaggacg tgtcaaaagc acttaggagg aagaaagatt ttttaattgg accgatgcat 420
ttttgtttat cttctcttgc tccaaggata atctcatttt gattnttcag ttgtttattt 480
attgtgcttg tatttctttt tagttcgTta gttattgact atggaatgaa tgcaaagtta 540
attaataaaa gacattgaag agtgaagtgt gtgaactttt ggctatatca 590

<210> 3971
<211> 414
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061a06d1
<400> 3971

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tttttttttt tttttttttt tttatttaat atatattaaa aaaaaaaaaa aaagaaaaaa 120
aaaaaaaaaa agaaaaaaa aaaaaaagaa agaaaaaaa agaaagaaga aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaaa 240
aaaaaagaag aaaaaaaaa aaaaaagggg aaaaaaaaa agaaaaagaa aaaggaaaag 300
aaaaaaaaaa agcacaaaaa agagaaagag gaaaagaaaa aaaaaaagaa acaaggagga 360
aaaaaaaaaa aaaaaaaaa atgcgaagac agaaaaaaa gagagcaaga aaaa 414

<210> 3972
<211> 520
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061a07a1
<400> 3972

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 gatgatgttg ctggagtgga tgaagccaag caggatttta tggaggtggt ggaatttctt 120
 aagaagcctg agaggttcac tgctgttggg gctcgcatat caaaagggtg tcttcttggt 180
 ggtcctcctg gaactgggaa gacactttta gcaaaggcta ttgcagggtga agcagggtgc 240
 ccatttttct caatctcagg ttctgagttt gtagagatgt ttgttggtgt tggagcttct 300
 cgagtccgag atttattcag gaaggccaaa gagaatgcc catgcattgt tttgttgat 360
 gaaattgatg ctgttggaag gcaaagaggt actggaattg gtggaggga tgatgaaaga 420
 gaacagaccc tcaatcactt ttgacagaaa tggatgggat tgatgggtat accggattca 480
 ttgtcattgc agtcctaac agggttgaca ttcttgaatc 520

<210> 3973
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061a07d1
 <400> 3973

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 ataggctatt caaacaacaa ctggtgaggg agttgaagga gggacccgat tttcagcagg 180
 aatttcaaca aactcggaca ggagagctcg gaattcatct ccagacattg tctccttctc 240
 caatagaact ttcacaattt tgtcaattgc ctacgggtg ctcttattt ggctcaatgc 300
 tatttcatat gtttcatctg agagtctctt gacagcagca tcaatgtctt cagcaagctt 360
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<210> 3974
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061a08a1
 <400> 3974

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cagatattcg taaaaacttt gaccggcaag accatcaccc ttgaggtgga atcctccgac 120
accattgaca acgtaaaagc taagattcaa gacaaggaag ggatcccacc tgaccagcag 180
agacttatct ttgcgggtaa acaacttgag gatggtcgca cccttgccga ttacaacatc 240
caaaaggaat caaccctcca tcttgtgctt cgcctcaggg gtggcatgca aatctttgtc 300
aagactttga ccgggaagac cattaccct 329

<210> 3975
<211> 421
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061a08d1
<400> 3975

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ttgatattta attcttttgg cgaaacgagc tcaatacatc atattaaaac ataaaaagca 120
gcacctaaac cagaacagca aacaagttca agggagaaat tgaacataac agacatgaca 180
tacaagaaca cttgaaaaaa gacacgctta aaacaagaac acttgaaaaa aaacacgctt 240
aaaaaccacc gcgaaggcga aggacgagat gcaaggtgga ttctttctga atattgtaat 300
ctgccaaggt acgaccatct tccagttgct tcccagcaaa aataagcctc tgctgatcag 360
gtggaatgcc ctcttgtcc tgaatctttg cttcacatt atcaatggta tcagaacttt 420
c 421

<210> 3976
<211> 593
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061a09a1
<400> 3976

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cactttacca ccaaattctg caccagctct tcctctcaaa tcactcacct ttgcagtga 120
agagatgtat gtacttcact tttctttttg taccacaata ttctgattgt caaaaactct 180
cctttgctga catcaaagtc gtcaactagt ctttgaatcc atgcttctgc atcttgaact 240

tgttttggaa gtgtttgtgt caaacagttt cgacacggaa ggatacgtga cgggcttcgg 300
gaatcctgac tgggcaagga ctcatccggt ggctacctct actgctccaa cagctctggc 360
tctcctcaga gcaggtgcca cttgtgttgg taaaactgtc atggatgaaa tggcttacag 420
tataaatgga gagaatatac attatggcac acctagaaat ctttgtgcac cagaccgggt 480
tcttgaggga tcttctagtg gctctgctgt tgcagatggg gcacagcttg tggatttctc 540
attaggaact gatactggag gaaagtgtag agtacctgca tcatactgtg gga 593

<210> 3977
<211> 546
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220061a09d1

<400> 3977
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ggatatagat cagcaaaaat ttcctttata caatatccct tctttgattt atgtccataa 120
ttcgcttctc tcccagcttt tggcatagta ggcatactca aagcatatct acatccttgc 180
agtcagatta aagtttgtgc tctatgatat gctgctttct atcttcaatg ctgtcataaa 240
gactctcaac aaggtgaagc aaaaatttat ctgcaccatg tctggccacc agagaaattg 300
ataggggaag gttattatac atccctagcg gtatgcttac ctgacaaaat cctgatactc 360
cagcaatgga cagcaggcta aaagcccttg cacgaaaaat ttctaagtcg gatgtatttg 420
tttgtagttt tgggggagga cctggaactg tggggatcat tagaacacca aagtccccaa 480
gatgaagccg aagagcatcg tgtagtccc ttttatagac taacagatat caatgttctc 540
ccccgt 546

<210> 3978
<211> 654
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220061a10a1

<400> 3978
gacagtgtgg aacaagaggt tggaagtagc actgtgtgga aaatcgagga atcaaaatta 60

gggttcaaaa tctcattgag gagaaagaag aagaaggatg tggcacgagg cgagaaggtc 120
 ggagaagaag gtccacgaca tgatggacgc ggctcggaag agagcgcaac gacgcgccgt 180
 ttacctcgcc aagagacgcg gcgatcctca gcaatccatt cagctcgtcg gctttcctag 240
 ccgaacctat cgcgacgacg ctctctacca agcctcacag gatcagcagg gcctgatacc 300
 ttggaatggg aaacaggatg tattgataga ccgatttgat gggcgtgctc tccttgattt 360
 cgttcgcgat tctagtcaca ggcgcgctcc ggagaagtct gaagaagaag aagagttaga 420
 agagtttggt aattttgagc gttatcgga ttaataaag catcgccgta gaggattcac 480
 tgatgaggag gctttggagc atgtaaatca agagatggag gccaaaggctg ctgctccatt 540
 tacatcagac agatctaatt tgttgacgcc tgctgcaagc aaggatctta ctcgcaggtc 600
 aggttttcta tgatgggaat ggaaaagaga actcatattc agatgatgag atat 654

<210> 3979
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061a10d1
 <400> 3979

accacagtag gtaaaaaaat ttctattcta ggtaaaaaag ggtttatcaa acttacatgc 60
 tatattatth tatagttcaa taatcatatt cttttggctt caatgaacct acgttattga 120
 tttgaattca ataaatctga accttggttt caaaaagatt gcatagcgca actttaacac 180
 aacttaacca aaaccgggtt ccttcgaaac atttggtaaa aatgaaagcc cgatgttaat 240
 atccattcca ttttataaac aaatggccca aaactttgtc agccttttta cacgtttaca 300
 gcattccatc agggccttga tcgatttctt atcctgggag atcgagaatt aggagaccca 360
 aaaccttagc cggaaccggg gccaaaagg gaaccagaac ttgaataata tcttctggaa 420
 cctctactac ttgg 434

<210> 3980
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220061a11a1

<400> 3980

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ttccctcaca actcataacc tctttcccat ttaacctttg aaaaaattcc atactgtaac 120
aacagatcac catggctcta tcacgtttgt cccaccgcag catcggatcc actctcacia 180
aacccttctc cgccgacgcc gcctcctccc gttagatctc cacctcggac acccccttaa 240
caatcgagac ctctgtcccc ttcaccgcgc acaactgcga cccccgtca cgcgcggtcg 300
cgacctctc ctcgagctc ctacacctt tccgcgacat ggccctgatg cggcgcatgg 360
agatcgccgc tgactccctc tacaaggcca agctcatccg cggcttttgc cacctctacg 420
acggncagga ggccgtcgcc gtcggcatgg atgccgtcat cactaaaaag gacttcatca 480

<210> 3981

<211> 420

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061a11d1

<400> 3981

aatatatatc tatatagatt tttgaactgt ttgacgtgtc taaaatattc tgaactacat 60
atcttcagta gtgcacaatg tattcctcaa atttgcagaa caccctcagtt gcatcaatca 120
caatgatgct ttggctgtta gatccgcaaa tattacatga caaaaaata acaaaccctg 180
ccccattgct aaccaagcat atgaataaat tcacactata cacgcgggca gaaactcaac 240
gaatagggga gagagatgac cctctgtaga accttttatt cttcactatt ttgaagagtc 300
tgctacgaca aggtggcaag atattcaaag gacaaagttc tgaattatgg taaagtagct 360
ctcacttctt tcctatcagc accaaatgtc tcaactccgt aacctttaac atagacattg 420

<210> 3982

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061a12a1

<400> 3982

cgaagtgtga agacagacac agtgagaatg atgaagcgtc ggctcctttt ggcttctctg 60

gttctctatg tcacagtggg gttctacgta gaagcagatg gtagtggtgg gtttgtgaga 120
acaagaggag tgcagcttat gctgaatggg agcccctact atgctaattg ctttaattgcc 180
tattggctaa tgtatcttgc ctctgaccc tctcagagaa acaaagtctc atcagtgttt 240
caacaggctt caaatcatgg cctcaacatt gccagaactt gggctttcag tgatgggtgga 300
tatcaaccac tacaatactc tcttgatct tacaattacc aaatgtttca gggattggat 360
tttgcaatag ccgaagcatg aaaatatggg atcaagatgg tgttgagttt ggtgaataac 420
tatgagaaca tgggtgggaa gaagcaatat gtggaatggg caaagagtca ggggcagt 478

<210> 3983
<211> 455
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061a12d1

<400> 3983

gaagcacttc aaattatcgt cagcagtcca tttataaac agtttagaca aagtacattc 60
acttgccgac ataatagtgt agatgaaatg ctagttcgtg cattacaaag tttctctcga 120
aatatctcaa taataaatag ttatgtctat cgcatttgta gaacacttca cttggaatac 180
tttgacgaaa ataacaggca attcttgcca ctaagattat tgggacactt cattctgaag 240
attaatccac acgcaaataa gttatcaatt aaagtttcta actcccttca ctctctctct 300
ctctctctat atatatatat catggtagtt aagacgtatc atattcagtt tccacctcta 360
atttgcttag cttcattcca cttctcaatg tttctaagtc tggcgtagat cttgcgaatt 420
cggtttagtt tttgagactc ttgagcgatc aaatt 455

<210> 3984
<211> 601
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220061b01a1

<400> 3984

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caagcccggg ggtgggccc atgggcccgt gaaggggcca tggatatgacg ttgtgggtgct 120
 aggtgcgctt gggttatcac cattacgccca gcggttaggt cctacaaatg agtcgggttta 180
 tggcccgtgg ggcagtatag taaagatcgg taagccnacc agagtgaac aaggctagat 240
 ggctagtggc gataacggat atgccagatg ccgtgggttac gttaaaccgg tagatggcgg 300
 gccgtatggg agtagcaata gaaacagccg gttgccatca ggtagtgccg tataggtatg 360
 cgtggggggg ggagtgggtg aaaacgtcca cgtatcagca cagacagggg cagcgggtggc 420
 cccaatacaa taccataatt ggataggggc taaataaagc gcggtattcc acataaccgc 480
 atacacacta aacaagtggg tgtccagggc agttaataaa ctagattata cagatgtgcg 540
 ctgcgccaat agcgagtaaa ggcgcggttg acccagaata gtttaagacc cgcggtaaaa 600
 a 601

<210> 3985
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061b01d1
 <400> 3985

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 gggggggggg ggggaaacga caaggatata atagagagaa ggggaggaga cacctgtgct 120
 gtgcgaggta aattgtatgt agtaaggata gtactgtaaa taagataagc agaagaaaga 180
 agccgaccaa gaaacgagag ccgaaagcag caagtaagaa gataagaaca aatggagccg 240
 actaattaga aatagacgat gatagcgcaa gggaaagcgt atccgggtgg tgataggtac 300
 accaactgca cccgaatcct ggtgcgtacg ctacgacggc gacagccacg agggttgcgt 360
 ctatttattg cagttagtgt taggcacaag tagtaacagt agcagatgcg ctggcagttt 420
 attattgtgg cttggcgcca ctatacaatg ggctaggtat gcaactggta tattta 476

<210> 3986
 <211> 542
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220061b02a1

<400> 3986

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gcttcttcac agaagccagt tgaaattaag gatgggttct agtgtggatc tctttccatt 120
gaaacgggtc aagtggctta ttgagttttc catggatcat gattgggtg cagcagtga 180
aaaactgttg aacctactgt ttgatggaac tgtaaataca ggagatcatc cttccttgta 240
tcttgcgctt tcagagatgg gtctccttca caaagctgta aggagaaata gcaagcattt 300
agtgagggttg cttttgagat atgttctga gaatatctt gataaactag gacctgaaga 360
gaaggcactg gttgatggag agaatacagac cttcttggtt agacctgatg ttgatggtac 420
tgctgggttg acaccactcc atatagcagc cgggaaagat ggttctgagg atgtacttga 480
tgctttgact aatgatcctt gcatggntgg aattgaagcg tggaaaaatg ctcgtgacag 540
ca 542

<210> 3987

<211> 397

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061b02d1

<400> 3987

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aaaaggtgga aaaaaagggg gccccaccac ccatggcccg ggggggcccc ttaggggaaa 120
caaaaccccc aaaaaagggg cccagttcc taaaaacaaa aaaccccccc cccgggaaaa 180
caggggtttt cagactgtaa accccccctt aacataccca accaggttta agggggtcgc 240
aagtaaagaa ccctagcttg gtccaaagcc caaaatttcc ccctgggggg gggggaaaac 300
cccataaacc ctgggggggc ctttaaaaaa aggggcccc aaaaacaaaa aggggcgtta 360
tgccccctt gggaagcatg ggggggggga cccaaaa 397

<210> 3988

<211> 538

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061b03a1

<400> 3988

aacaagaata ctcataataa tatagtggct agcatagagc tagtaataat attaataattg 60
ttaagctagc tctaagccat ggctaataa cgtgatctgt tctcggcgga gattgtgaac 120
cgtggaattg aatcgtcagg accaaacgct gggtcgttga cgttttcggt gagggtgaga 180
aggcgcttac cggattttct tcaatcgggtg aaccttaagt acgtgaaatt gggttaccat 240
tatctgataa accatggcat atacttggtc accataccgg ttcttctcgt ggtgtttagt 300
gctgaggttg gaagcctcag caaagaggac ctatggaaga agctttggga agacgcgcgt 360
tacgaccttg ctacggatct tgcttccttt ggggtcttcg ttttcacctt gtctgtctac 420
ttcatgtcga ggccacgttc catttacctc attgattctg catgttataa acccgatgat 480
gaactcaagg tgtcaaggga gcagttgatg gatgtagcat gaaaatcagg caagttcg 538

<210> 3989

<211> 437

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061b03d1

<400> 3989

agccatccat gaactttgat atcaatcatc ctatgaagaa acagagaaat taaacaagga 60
ggcatccata tgcctaataa ggaattaaaa gtatagaatt tcaagccagg aataattaaa 120
tgagaaagaa acagaaaaca gatgtaacat ttttgaagac caaattagta ctacccttat 180
tgatcctaac cataacctca ctgataataa gattcataac actagtgccg tcaaattctg 240
cttcagttgt tgagaggtgc aggatatctg ttgatgcaat caagccaagg gttcctagaa 300
ggcttggtga ctcggcgcat ggcgcgccaa accacactgt tgcacttgaa gccagagcca 360
aatgcgagtt gccaaacacg gtctcctctt ctaacactct cttttgcttc catgtaagcc 420
aactcatacc aaatgct 437

<210> 3990

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061b04d1

<400> 3990

aaaatccacg gtaacaaaat ttatatgatt gaaatatgac agaataattta tcaacgcact 60
ggcaaactgt caaaaaagta accaccttag ctggaggcac caaatgccga cgaaaattca 120
gaatgagtat ttgtgctcaa aacgacaatc atagtactca aatatctcta gcaagagtag 180
aaattaatac ataacgaagt aacaaactat catgggtgtc tactgttgct taacttcaac 240
tttcttcttc tgccacaagc ggtctagagc actgtcagca tcaccctgag cacggatgaa 300
tccgcagagg gcaaaagtgg agaaatggcc attgtagacg ccattctcat ccacatgccc 360
aatgttgatc tgaaccgaag catggctcct agcggtaatc aatctgtttg tggcggagca 420
cttcctagga atgtaaagct cagtgatctg tcctttcttc gtctgcatct ttggttgaac 480
gct 483

<210> 3991

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220061b05a1

<400> 3991

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gatgaacatt tgtggttgtt gggtttcac aatgaaattg ccttctctcg ggtggcgctt 120
ttcaaggcct tttacctctc tctgttcttc ttcttttctg ccacgcatta tgaccattca 180
aagttgttct tctccttctt cttcagcctc cttatcaacg tcagagtcga aagagatgaa 240
gaaggaagct tcaccttggt taattgttgg cctcggcaat ccaggcaaaa agtacgctgc 300
caccgcccac aatgtgggct ttgagatggt tgataccata gctgaagctg aagggatatc 360
tatgaccact gtttccttca aatccttatt tggaaaaggt tttatagggt atgtaccagt 420
catacttgca aaaccacaga cttatatgaa ttcaagtggg gaatctatct tngacgactt 480
gga 483

<210> 3992

<211> 489

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061b05d1

<400> 3992

gagaatgcta atagcaaatt ttatagaaag ataagtaggt atattataca caataacttt 60
ggttaaaaat tacagatcgt tgagaaaaca gccaaaaaac tgttatttag tgtacaagaa 120
gcctagccga gccaaagaat ggggaaagga aatgtgatgg acagattcat gacatcaagc 180
cagagcaact cttgtatgaa tacatagtga tgaacttcta gtacatagta catggtgata 240
aagaattaaa aaccgtcgtt gagtgccgtg tgagctatca actcacatta tataatatta 300
taattcaagg tgctggaagt gtcaaaatt gatcaaacac cacagtatgt aaacgtacga 360
gtacctgaag attccaggca tcaggttcga attcattgtg ctgaaactgc tttctgaaag 420
aatggatgaa tacttgctca aacatagccc tatcaaatta aaaaacagag ctttggacga 480
gtttactct 489

<210> 3993

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061b06a1

<400> 3993

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gaaaaggata ggatggctgt tgatagagca acttttagagg ctctgtatag ggcataatgct 120
gaatcttggt aaagggctgc atttgaaaga gcaactgtgg aagcacggtg caaggcactg 180
gctgaggcca gggaaagact tgagaaggca tgtgctgagg ccagggataa gtcaaacatt 240
gatgaagaaa ctatagaggc aagactgaaa gcagaacgag ctgctgtaga aagagcaact 300
gcagaggctc aagaccgagc tatggaaaaa ttaaagaatg aaaggactgc atttgagtcc 360
agagaatggt tagcgagatc tgtatctgac aatttttgcg gaagaccaga ctcttcatcc 420
tacgatatgc tggatcctga gtttcagaac ttaagctcta ccacagggtc cagacattca 480
tattcacttt atggtgctgc ctctttttct gagagat 517

<210> 3994

<211> 472
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061b06d1

 <400> 3994

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 aaaacaatgt tcaagtagtt aatgtatgat ctaacatatt ttcttgctaa acattgactt 120
 tgacagcacc cacctaattt gttcagtttc ttggtccttt tattcttaaa attgattaaa 180
 aagttattgt aacaataatt cccaattttg ctaacagaaa gccagtctta gccccatgct 240
 ttatatctat ttacttttgt atttcttaat ttcttgctat accatgggca aaaaatttct 300
 tcataaatac aaacacttat gagactatta caacagaaca tagactatga caaaataatt 360
 attacggttt tggaagtttg gactgtgtgt cacttgggga aggaattacc cggccaaggt 420
 gaagaagctt ctttcacact tgcagagaca gggaggggaga aaaaacagac ct 472

<210> 3995
 <211> 504
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061b07a1

 <400> 3995

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 atttctcaac cacaacgagt tgctattccc ttcgattcac gaaccagaa aattaaaaca 120
 ttaaaaaaga tatcaagtat caaaatctaa acggcatcag caaacatgtc tcaacaccat 180
 ggtgatgaaa tggagtatgc ggcagatgat aatgaaatgg cagaggtaga agaggatatg 240
 tatttccgtg gcagggcatt tggatgaatca gattcggatg atgacgacga ctacgaatat 300
 gaccctttgg aaaaccgaat atcagatacc actgctgctg aagctaggag ggggaaggat 360
 atccaaggta taccttggga taggttgagc attagtcgtg agaaatatag acaaactaga 420
 ctagagcagt acaaaaattt tgaaaacata ccacaatcag gggaaatgtc ggaggatgaa 480
 tgcaaagcaa cagataaagg gggg 504

<210> 3996

<211> 409
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061b07d1

 <400> 3996

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 gttatttagc atgaagggtg acatcaaaca actgtagcat cctcaagcca tgctctacaa 120
 tgtatgatga gacaatctac cgggtttttct gggttttgcta tgatgtacca ccatactcga 180
 atacctaaac aatagacaac acaacatgag ctgtaggtac ttacaagggtg taagggttaca 240
 aattttacaag cagtcaagggt acatgtaatt tctgcgtcga ttgaactgta gaaggcttcc 300
 atagggtcga tcccaaacac caataaagag tgattctgtg tcagggctga aggatacacc 360
 agagatctcc ccaaaaaaat cgatctcttg ctccttctca aacccatgc 409

<210> 3997
 <211> 589
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061b08a1

 <400> 3997

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 ttccctctct tcttcgccgc tcttttttagg gttttctcaa ctcttcgatt tggggcttaa 120
 accctcgctt ccgattcaga ttccggattta gggcttccgt ttctcgattc tgcctcccaa 180
 gaaaaaccag atctcgtgat tgattattca tcatggccac tgttgctagt cccgcggatc 240
 aagcaactga tttgctgcag aagctatcgt tggaaactca gcccaagccc ttggagattc 300
 ctgagccaac caagaaggcc actgggaatc agtatggatc agttgattca ggaaatgctg 360
 cgaatggcca gatcccatcg tatgatcggt ctgtaacccc agtggtgcag gattttattg 420
 atcctactat gtgttacctc ccaaattggt acccatccac tgcctattat tatgggtggt 480
 atgatggaac tggtaacgag tgggatgatt attctagata tgtgaattcg gaaggagttg 540
 agatgacttc cggagtttat ggggataaag ggtctctact ttatcacca 589

<210> 3998

<211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061b08d1
 <400> 3998

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 aaaataaaca gaagactaaa ttaagacgaa aaactcaaac ttaaaatcca actatatttt 180
 tcagtatttc ccaccttgct tctacccttg ttgaaagtaa caaagtaaag ctgctctgca 240
 acaaagtaga tctaaattta caagacagga aacgaccaac aaagtgaaat aaaagaaaga 300
 aaaaagaaaa aaggcaaaga gaaggataaa cccgaacaaa aaccaaaga tataagcatc 360
 ttaggcagaa accctaaaac ccaaaaaacc ctatgagtaa agcctgttag gagctaacca 420
 ctggtaacaa aaccaatga gaagggattg gtgctagcat tctatgaag 469

<210> 3999
 <211> 555
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061b09a1
 <400> 3999

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 gaaggagctc ggcggcggcg ggaagatcac cgatgaattc accgggaagg gcgcgatcgg 180
 gcaggtctgc caggtcattg gtgccgtcgt cgatgtcaga ttcgacgagg gtttgcctcc 240
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 tggccgtatc ataaatgtca ttggagagcc tattgatgcc aaaggagaaa tcaatactga 480
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 gaatcttgta ctgga 555

<210> 4000
<211> 445
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061b09d1

<400> 4000

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cttaacatca attctgtttt tgtgatacta ctatataatc ccaccgaaac ccacgcccag 180
accccaaaca ccaccaacac accgacatac cacccaacaa aaaggagaaa aaaaaccaac 240
gcggaggccc gccccgcaaa aacaccgaag aagccaaaaa caagaaggcg ccacccccca 300
acaacaaaag ggaaaaaaag cccccccac ccgcacgccc ccccaaaaaa aaaacaaaaa 360
accacaaggg gggcgggcca cacagcaaca aaaaaagagc cccacggccc acccgaaaag 420
ggccaccaa acaggggggg ggggc 445

<210> 4001
<211> 573
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061b10a1

<400> 4001

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tttcacgcgg cggaagccaa gggacagtgg cagctcctcc acaaaaacat cggcattgtc 120
gccatgcaca tgcagtttct ccacaacgac cgcgtcatca tcttcgaccg caccgacttc 180
ggactctcca acctaacctt ccccgacgga agatgccgca acaacccaaa cgagttgggtc 240
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gctctctttg tccaaaccaa tgtctgggtc tctccgggtt cggctctctc cgacggaaca 360
ttagtccaaa ccggtgggtt caacgacggc taccgtgcgg tcagaacctt caccctgtgc 420
cgctcgtgcg actgggcaga agttcagcat ggactcgcgg cgcagagatg gtacgccacc 480
aatcacatct tgccagatgg acgtcaaata attatcggaa gaagaagaca attcaactac 540

gaagtttacc ccaagacaca agccaagaat act

573

<210> 4002
<211> 452
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061b10d1

<400> 4002

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taggccataa atggctttat ttgaatttta tcttcccata tcttacagtt taaataactca 120
ctcaagaatc tgttcactcc cagacattca caacaataaa taacttgaat aaaaagaaca 180
tatacgaacg aagttgtcga gcaggcagag acgagaattc acaatttcac accatctgga 240
cccaaatacc gtggcttgga acttcttgat ggaccacaaa cagcagatag aaacccggtg 300
gcgcaagaac agcggaagcc ggcgcggtaa cttaacctcg tgcgttgatt ctccaacccc 360
actcaaatgg tgcggcttca gcaccaacag cctctgattc atggagaacg agtgcgtggt 420
aaatggcggc gccagcatgg taacagacac cg 452

<210> 4003
<211> 419
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061b11a1

<400> 4003

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caagaacggc gacggcaaga tctcgtgcgc cgagctgaag gagatgatgg tggcgctggg 120
atccaaaacg acgtcggagg aggtgaagcg catgatggcg gagcttgatc ggaacggcga 180
cggctacatt gacctgaagg agttcggcga gttccattgc ggcgggcgcg acgggagggg 240
gctccgggag gcgttcgagc tgtacgatct ggacaagaac gggctgatct cggcgaagga 300
gctgcactcc gtgatgcgga ggttggggga gaagtgtccc ctcagcgact gccggaagat 360
gatcggaac gtggatgccc acagagactg caacgttaat tttgaaaagt ttacgaaga 419

<210> 4004

<211> 325
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061b11d1

<400> 4004

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agaggaatct gatgagcgtt ttggagatga aggtgtaact gaaatagtag agctgggtgaa 120
gaaaacattg ccactgcctc tcaatatgaa gaaggaagaa atcaccaagg gtgacgaaga 180
aaccgcaaca ttactgaaag agagtgtctac taccaccacc acctacgagc gagtcatcat 240
cttcttaaac tcttcaaaat tgacgttggtc gtcaccgtcg gcatccacgt ttccgatcat 300
cctccggcag tcgctgaggg agcac 325

<210> 4005
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061b12a1

<400> 4005

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ttgattcttt cttttcacgt gtaaacacac aaaacaaata attttccttt ccatcggggg 120
ggtaatatat agacttttat catttacaaa catgttatta atattctatt gcattatgtt 180
atctattgct gtcctgtcat ataataatc ttattaatca tgtattttca tctgtcagta 240
tttctcttat ggcgtttatg ggatctcgaa gaatcatttt ccatacaagt gacacgtgaa 300
cttacaagag tggctaataca ctgagagatc tacacctcgt aagtgtgtaa cctactaata 360
ttatcgtatg agtcatacta tatatatcta tattgagaga gagagagaaa gatttcagat 420
tcaacttcca acgagactga gtgtggcatc cttatagatt ggctgcaata tacactctct 480
catttttgaa gtatcggttg aaatt 505

<210> 4006
<211> 335
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061b12d1

<400> 4006

aaaaaaaaag aagaagttta tataacattc taaataaaag gtacataaag aattacatgt 60
tattagtatc aggtacaaac ataagattat ttcccgatgt agctgctgca ataaccacaa 120
ttgcgataat cgcattctgca atcataacca caattttata aaccttgacc ctaagggtctt 180
tggtgcattg ttctaggata tatgcctata aacttttggc tttcggataa ataatcctta 240
atacttcaat ggagccgatg atgaaccaag gaattataag aacaaaacat tcgagccaat 300
caatcagatg gtccaggcat tttctcaggt accac 335

<210> 4007

<211> 604

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061c01a1

<400> 4007

cgatagagcc tagcactgag catcgtctag ctatctcgat cgaactgtcc aaggctcctgt 60
cacttctaata acacacgaca aaaccagcct ctccggcagt atacaccgag ccgctctccg 120
cctccgctga tgcgctcttc tcttccctca tcgcgcccgc cgaccacctc ctcaatttca 180
gatcaagccg ccgtccccgc cacacatcac cgccagggtcc cgcagacctc tacgcttcac 240
acgtgtgcaa cgggctgacc gggtagcagt accgggtcca acagggattc aactcaccaa 300
cacagacccc cacaccgatc acagaggctg tgtaaaattg taccggtagt tctgtttata 360
ataacaattc tgcgtttgat atgtgtgtgc ggaagtaggt actgcaggcc atggcccacc 420
tacggtaaaa caatatacat gaacgtctgc tttaaaaggc tgggtgcttat gtggaaatct 480
taattataac tgtatgcacc tgcagtgggt gggttatcaa acatgccacc aaacaaccaa 540
gaccacgca gcggaaacag taacctagag cctcagtagc tgccataggg actataatcc 600
cctg 604

<210> 4008

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061c01d1

<400> 4008

gtcacattcc gttccaggaa gggttcccgt catcactgta tgacgtcctc cttctttggg 60
gggggggggg ggggggaagg tggagaatgc agaaggaaac tccccatcta gtaagataag 120
ataagataag agcgaatgag caatgagtaa gagagcagtc ggagggagcg tgcgcagata 180
tataaggtag gtttagcagag gtggatcgca gggataactaa tggatgaatgg agggaagata 240
gtagattaat ttaatgacga gtaaggggta ggagataaagc atatggagtg ggaaatgtgc 300
acgtagcgat accacgcgac gtattaccga ttagaggtgg acgtaaggga ggttataatc 360
gcagaacatg tataacgcgt aatattatat agcgggtggtt ttaagggttag gggcaacgac 420
gttaggtgta ttttaatggg tgttttacga aggggggagc acttaagagc ccatcttagg 480
ggtaatgtta gatttta 497

<210> 4009

<211> 230

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061c02a1

<400> 4009

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cgaccatctg agatccccgt cactcctctc gccggcgatc ccttagtcct ccctcatccg 120
acgagtgctt tccgatgcga atcatgccca gccttgggcc agcatgagtc ccgtatccga 180
gtatttggcc aagcttttgc tgattggaga ttctggtgta cgcaagtcac 230

<210> 4010

<211> 350

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061c02d1

<400> 4010

attactgatt atttaagcgg ggcgcattaa taccatacat tttcatctgt gcaactttgc 60
actacctgta ctagcacggt atttatgtct gtgatacaca caattcagtg ccatgcattt 120

ctgtacgaga ttacacgcaa cttctaactt atttaaaaca tcataccaac ccaactagga 180
gcaattttca ttatacaatg acacttatct ttaaactctg aagcatgaca atggcggtgg 240
tcaccaggga ccatattctt atgcaatcta tgccacaact ggattagacg cacaagttgc 300
atcaccacac atgttctttc ccaatgccat tttgaagcac ccattttcac 350

<210> 4011
<211> 233
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061c03a1
<400> 4011

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ttgggttggc aatttgtact tatcagttgt aatgtcctcc cctgaataac cgacataagg 120
ttatggttct tgctcaaagc gcattccttc atttttgccc agttatgttt atcagaattt 180
ttgttgtaat tttatcatat catgtgaaat gatgcttaca agagaatctg ttc 233

<210> 4012
<211> 233
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061c03d1
<400> 4012

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gataaacata actgggcaaa aatgaaggaa tgccctttga gcaaaaacca taaccttatg 120
tcggttattc aggggaggac attccaactg ataagtccaa attgccaacc caagatgttt 180
tccaatcctt tgggactata gctcttttat ttccacgggt cgagcggttc gag 233

<210> 4013
<211> 541
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061c04a1
<400> 4013

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 gccattcgtc atagcgacaa acaggcatct gagcgtggtt caccctatct acaaacttct 120
 gtttcctcac tatcgtgaca ccatgaacat taattcactt gcccgcaaat ccttgggtcaa 180
 tgccgacggt attatagaga aacattctt gtgggtagg tactctttgg aaatgtctgc 240
 tgttatttac aaggattggg ttttcaccga tcaagcattg cctaattgatc ttgtcaagag 300
 aggagtgtct gttaaggatc catctgctcc ccatggagtt cgacttttga tcgaggacta 360
 tccttatgct tctgatgggc tagagatatg ggatgctatc aagtcttggg tggaagaata 420
 tgtctcattc tactacaagt cagatgaaga actttaaaaa gaccccgagc tccaagcttg 480
 gtggaaagaa cttgcagagg tgggtcatgg ggattcgaat gataagccat ggtggcaaag 540
 a 541

<210> 4014
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061c04d1
 <400> 4014

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 ttattaatga caaatacaag tacattcagc cactccaaat acataactta aacatacaca 120
 actgatgaag gaatcagatt ccttctatct cacatttatt taaagccagg gacagtactt 180
 cagcaaccat agagccctta gatagagata ctgttgggaa ttctcttgaa agtcaatccc 240
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 aatgtctcat tattgggtctt ctctataagc ttcttttcaa tctcttcaag attctttcca 360
 aacctcttaa aggcctctaa tggcccggca tcagaagtcc agtagtcacc gccatctctc 420
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<210> 4015
 <211> 581
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061c05a1

<400> 4015

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gtcatgcttt tactggccat ctctacaaag ctcttcatga caagggaatc cacactttca 120
ttgatgatga gaagcttcaa agaggggagc aaataacacg agcacttatg gaggcaattc 180
aagattccag agttgccatc actgtgcttt ctcaaaacta tgcttcttcc tcgttttgtt 240
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tcttttataa ggtggatcct tctgatgtga gacaccagaa aggtagtatt gcagaagcat 360
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ctctgaagca agtagctgac ttgtctggct atcatttcat agagggagat ggatatgaat 480
tctaagttat tgagaagatc gttgaccggt atttagggag attaatcctc gactttacat 540
gttgccgatt accaggttga ctagagtcac gagtgctaga t 581

<210> 4016

<211> 433

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061c05d1

<400> 4016

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aatctaaaac taaacaaaaa agtaagaaat gaatattata ttgaggtact tatttattta 120
acatttatct gtattctgaa atataagggt ggcaaaaagg gggacaaaca cgaaaaattt 180
tcacaggctg ccgtttcatg gataaaccga atttggaaca ggaatcagca gcataatcgt 240
tatcgaagta taagtgtttt gtagcagagg ttagagcttt caactcatca cacagtggga 300
aacaatgctc cagcgatgta gatgtagggc atccatctaa cacaaccca atagctttct 360
cagagcccga ttccactatt attttaccaa aatcatgctg ccttgcaatc ttagcactta 420
ttggaatgct atg 433

<210> 4017

<211> 543

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061c06a1

<400> 4017

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gaacctccat attttcaa at gactgtcaaa cctatgttta ctcatgggct tgatgtgact 120
gaacttccag gcattgctgg gtggctagat aagctgctgt ctattgcttt tgaacagacc 180
cttggtgagc ccaacatgct gggtgtgat gttgagaaat ttgtttcacc acaacaagag 240
tcttggttca aagtgaatga gaaggagcct gttgcttatg caaaagtga agttattgaa 300
gcatctgaga tgaagccatc tgatctaaat ggattagcgg atccttatgt gaaaggtaa 360
atgggtgtat acagattcag gacaaagata caaaggaaaa cacttactcc aaaatggcac 420
gaggaattta aagttcccat cataacatgg gagtctgata acgtgctggt tattgcagtt 480
cgtgacaagg accatttcta tgatgatatc cttggggact gtaccgttga catcaatgaa 540
ttt 543

<210> 4018

<211> 523

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061c06d1

<400> 4018

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ttatgtaaaa cgttctatga cgatcacagg actattacta caatcaaaat ctgccaagta 120
ctgtagaaac actcacttgg aagactgtat ataagaacac gggtatgaaa tgctggagaa 180
aatatgctat atgctacttg aaactttctt cagtaggaca aaccgataga atctctttta 240
tctgtgcccc catttcctct ttatcatgct ccacttcagc agatttaaca acttcttggc 300
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tggttcatt gtccaaatta gtgtttgatg gaactatttg aaccacgttc accccagaac 420
caggggaacc attgctacct gagaccacag catgagaacc aactggagtt tctattacat 480
ctatgggaga ttgagctgca atagattcct cgtcagaaga gtc 523

<210> 4019

<211> 589
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061c07a1

 <400> 4019

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 aaccctcat tcccgaaccg gttcggcccc gttcaggtgc ttggccggcc agaccgggtt 180
 cttcacgaaa ctagggcggt tgataaagga gaaggcgaag agcgacgtgg agaagctctt 240
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 gaacctcgcc gacaccgacc gcgtgctcga cgaactcgaa gaggtctttt tagagtccga 360
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 gaagcttaaa tcagggaatg agataaagga agcactgaag aggaaccgtt tggaattatt 480
 aacttccaag gggagttaaa ctgaacttta acttggtatc aggaagccag ctgtaataat 540
 gatagttggt gttaatggcg gaggggaagac tacatctttg ggaaaagct 589

<210> 4020
 <211> 525
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061c07d1

 <400> 4020

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 cataaacagg agtgattata aaccctattt ctcatattgca tcgcgtcaga atcttccagc 180
 tacagcatgc aaaataactca gcgttcctca agcaacagct ctgcacctca aaatcatgta 240
 cacttattcg caatgcttgc cccccacccc caaataacgg tttccataat caagtgccat 300
 ctttctgtg acctggtgtt gctctgaata ttccatgtca agctgtttct gctaataaat 360
 gattcaaacc cacaatattg gtttacataa aaatggcatt gacaaaggct tccgcatcaa 420
 aaggttgaag gtcttcaaca ccttcaccaa caccacata ttttacaggg attccaagct 480

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525

<210> 4021
<211> 349
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061c08a1

<400> 4021

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ggtggccttc cccctccctt ccgacaccag caaccttctt tcccccttcc agcaccgcga 180
acccttcgcc tccccctcca tctcccccta gcgtgacctt tcctctcccc ctccccctc 240
acgttacctt cttcttcatc cggcaccacc agtcacaaac ctttcccttg ccccttgcac 300
aaccttgctc cgataaagca acctctaaaa ccaaccatgg cagcccagt 349

<210> 4022
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061c08d1

<400> 4022

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atcgcatgac tcaaattttt taacattttt gcttttctt tttctctttt tatgcctatt 180
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atcgagcgcc gcatgaacca acgagggctc cctccctctc acgagccaat acacttcttg 420
cgacttcggt ctctccctcc agcggcccaa atccgtcatc atctcgtcaa gaccggctcc 480
ccagttgacc acacca 496

<210> 4023

<211> 539
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061c09a1

<400> 4023

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cgaaggacca ccttcacgct gctcgggttac tccatgtcac cggagccgtc gggccggaga 180
gtcttgtctt cgacgctgac ggccggagggc cctacaccgg cgtcgccgat ggccggattc 240
tcaagtggga aggggaagag cgaggttga ctgaatttgc tgtcaccagt tccaataggt 300
cggactgtgt acgcccattt gcaccagagt tggagcacat ttgtgggagg ccattaggac 360
taagatttga taagaaaagt ggagatctgt acattgctga tgcctaccta ggcctaaaag 420
tagtggggtc tacagggggt ttggccaccg aagtggtaac agaagttgaa ggtcagccct 480
tgcaattcac caatgacatg gacatcagtg aagatgcaga cgtgatatac ttcactgat 539

<210> 4024
<211> 434
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061c09d1

<400> 4024

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atttcacaat tctacataat ctggatacgc aataactacc ttttatttgg aaaaggggat 120
ccaaaacagg cccctttagt catccatgat acccttttat aaaccataaa tgccaatgaa 180
agggtcaac cctggtgcaa tccaaagctt cccatttttt tcttgcaact tactggtgaa 240
cttcaagggc ttcccattac aatttttcaa gactttttaa atccctcctt taccactcag 300
gtttacagca gcagcatggg gggtccaccc tgcaaatgat gtgtgccgct gcttgaaatt 360
aaatcccata ttaagcaatg ccttttccac ccaagggttg gaagaaaccc actttgcgaa 420
agggttttcc tttg 434

<210> 4025

<211> 574
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061c10a1

<400> 4025

caaagcgcac ccattttctc attcaaaaac tcttattatt tttcactcct tcctacacaa 60
attcccatgg cggccctcgg tagatcctcc gctgccgcca ccacctcctc ctctcctcc 120
tccgcccgat tccgccgctc cctccaccta ccgccttccc aactctcctt cccgcgcgcg 180
cgcttttccg tcaacgccac gtgccccttc ttctccgata acaatggcaa taagatttcc 240
cttccccaag acgtcgtcgc ttccaaaccc tcccctctcg agttgctcaa aacttccgcc 300
gccgacagat atacgaagga aaagagtagc attatttgca tagggctgaa cattcacact 360
gctcccgttg agatgcgtga gaagctttcc attccagaat cgcattgggc tcaggtcac 420
aaggaccttt gcgctttgaa tcacatcgaa gaagccgcgg ttctcagcac gtgcaatcgc 480
atggaaatct atgttggtgc tctctctcag caccgtgggtg ttaaggaggt tactgattgg 540
atgtctaagg tgagtgggat ttcaatacct gaggc 574

<210> 4026
<211> 514
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220061c10d1

<400> 4026

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caagaggatc atgaatttac aactgctcta tatcaagctc attgagaaaa atataacatg 120
ttgaattcaa ttacttataa tgttaaaaat aattgaaaaa aattagcctt caaagggcct 180
caatcaacta ctgtagtgta caaaatggcg aggattgcag cccccacagt aatcaaataa 240
aactaaacca attgaagaag aatctacttc tgaaccggtt ccatcttgac tctgatcttt 300
tcttcgatca aggaagtttc tgtctcaaga tcatacatc tgtaagggc gcgcatattc 360
tcaagtactt cactcagact actatcattt ttcccatcac accttacgtg ctgcatggga 420
ccatgaagta gcttattcac aatacccata ctaagggcat aaattgcac tttgtgttgc 480

tttgagacat canggccat ctttcgacaa cact

514

<210> 4027
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061c11a1

<400> 4027

gtcttacagt tgagaatgta cacatggttg aggtggttgg ttctggatct cgtgtgccag 60
ctataaacia aattttgaca gagttcttta aaaaggagcc taggcggaca atgaatgcta 120
gtgagtgtgt tgccaggggc tgtgcattgc agtgtgcaat tctcagccca acttttaaag 180
tacgggagtt tcaggtcaat gaaagctttc ctttctcaat ttctctctcg tggaaaggtc 240
caagttctga tgcacaggaa agtggaccaa ataatacgca gagaaccctt gttttcccca 300
agggaatcc cataccaagt gtcaaggcac taaccatcta caggtcagga accttttcta 360
ttgatgttca atatgatgat gtgagtgaat tgcaaaccac tgcaaagatc agcacatata 420
ctattggacc tttccaatct acaataactg aaaaagcata agttaagtga aagttcgttt 480
gatcttcatt gaattgtatc tgtcgaatct gcaactttgc tggaagagga aga 533

<210> 4028
<211> 303
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061c11d1

<400> 4028

aaacaagcat tgtaattcca cttatagaac gtagatttga ccaaaaataa tccgaatctc 60
agataattca cccattacca atttttccag caaagaatcc cagcatcaac tctcaccac 120
gacgattttt ccaggtacaa ttcaaattgt tatacaaaac gtagagacca gacaaaatca 180
acaaaaatta agcagagcct gtgttctctg gtttgtcagt ctccattggg tcagcagatg 240
ctggtggtgg ggctggatta gcattgtccc ctgccttttc attagtactg gcattaggat 300
tct 303

<210> 4029
<211> 386
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061c12a1

<400> 4029

ctgggtggatt catatccaga gctcagtgga tgaggggaagg ctaattgctc caaccccacc 60
tgcttctcct ctgactcagt ttagtgaaga gagttggact tctctttcaa cccagaagtt 120
ctccatggaa attgcttcac caacagtaga agatcacatc cttgactttg ctcttctata 180
cagaagaaac caaatgatg gacaacttat cctgcttagt gaggatgtca cattgaaaat 240
caaatgcatg gcagaggggt tgctatgtga accagtgtca gagtttcgtg agagtctagt 300
gaatccattc tctgagaggt tcttgtggga caaaagcatt cctcgaggac agacttggtc 360
ttgccaagac gacgtagtct taaggg 386

<210> 4030
<211> 408
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061c12d1

<400> 4030

acactagata aattcatgaa attttatttt gatgtagtat agcactattc acaatccctg 60
ttgtgaggag gggttttaag acgttgctac cagctggcta aaatctaatt gattaatatt 120
tataggtaat gtttgcaata aaaaaagtt taaggcattg caaccagcaa atgagaatac 180
tgtggtcaat caaaactggt cagctggctc aactgaactg tttttgccac tggctcagag 240
tccatattga gagttgtgaa gtagaattag cttcaaaccg cttgcaactc cttttgatgg 300
cttccttaaa cgacaaaatt tctcccttaa gactacgtcg tcttggcaag accaagtctg 360
tctcgagga atgcttttgt cccacaagac cttttagaga atggattc 408

<210> 4031
<211> 350
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061d01a1

<400> 4031

gatagagata acactgagca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca 60
ctatTTTgct gagcgagcga cttagttacc tgcggTgggt atgggagcta acgcgcgtcg 120
ataatgccga ggcacggcca ggtgccacag ccgcagtact tatatgcggt ttgagtgagc 180
acccggagct ttgtttatag gttagttggt cgtggcagtg cctgccgtcg cattgtatac 240
agggtggcag gaaaagtggc atgcacatcg ccggaggttg gtattattgt acttcagtcc 300
caaaggcgaa cccagcgcaa acaaactggt gtggataggc tttggcatga 350

<210> 4032

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220061d01d1

<400> 4032

gtcaacattc cgttccaagg aaggtttccc gtcactactg tatgacgtcc tccttctttg 60
gggggggggg gggggggggg gggggccgac ggtaatccag caaccaggag aaggagctag 120
aataaccgga taactcgacg ggcagaagtt actgaatgta gatgtacaac gaattacgta 180
aaaatggagt aagcgagagc aaaacaatgc cattagggaa aaaaaaaaaa aaaattaatg 240
tgttgtatgg gtggtaaaga aagcagtatg ttaataccac agaatagca aaaccagaat 300
aaacctgaca agcaaaccg gataagtgct aacgtagcgt ggttacataa agtagcacca 360
gaccgacgtg ggcntggtaa gaatttgagt gtgtaaatac ggggacaagt atgg 414

<210> 4033

<211> 160

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d02a1

<400> 4033

aaactctgtg cagtgaaggc actttgaatc tgaaaaaaga ctttatgcct aaaaatatat 60
agtcctgtt agattggaca tagacacagc gcacctcgac atggaagctg aggacagtca 120

tcgcgatctg aatcacgcta ttttaagaga aaagatctaa

160

<210> 4034

<211> 136

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d02d1

<400> 4034

gagattcaaa ttgccttaac tgcaaaaagt ttccatgact aggggccctc tgtttatgga 60

caaactgaca ggaactttct attattgggc ctgaaaactt ctttgagatg catattgcct 120

taactgcaca atgttt 136

<210> 4035

<211> 423

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d03a1

<400> 4035

gattgctaga atggaatttc gatgctcagt catctctttt accattctct tctctcttgc 60

tcttgagga gagagccatg tccatgcac gctacctgag gaagattatt gggaagctgt 120

ttggccaaac actcccatc ccaactgcact gcgagagctt ctaaagcctc tccctgcagg 180

tgttgaaatc gatgaactcc ctaagcaaat tgatgataca cagtacccaa aagcattctt 240

ctataaagaa gaccttcac caggcaaaac aatgaaagta caattcacca agcgtaccta 300

tgcacaacct tatggcgat atacatggtt aacggatatt aaagacacct ctaaagaagg 360

atatagatgt gaagagatat gcatcaagaa agaagcgtct gatggagaag agaagttttg 420

tgc 423

<210> 4036

<211> 418

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d03d1

<400> 4036

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 acgtacgtag aaaggggaag ttccaggtct tgcgcaacat acacaacaca ccataattta 120
 ttttatatcc aatcttatgg cgcccaaaat gcacatgcat ggactaatta aacaacaacg 180
 ttagtctgat aggcagtgtc catagataaa ttgggttccc ataaaatggc cttgcttcca 240
 aggaaatggc acacaggggtt agttccagga tcaactccca tgagttcatg aagcctgtga 300
 tgattcattc cagaagtatc tgagtggcaa acagcatgtg cctgagacct ggggtccatat 360
 ccagccacca atggaaccat gaaagctgtt gtttcacgga ctttatggca cgaaaata 418

<210> 4037
 <211> 549
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061d04a1
 <400> 4037

aattcagtta acacaccaac cccacatcca aagcttcagt tcaatatggc aaccttgtca 60
 agttttgctc ctttgccat tctaagttaa gttctagtaa ttagtgccat tgtctttgag 120
 gctgaagcta ggccaaggac attctttgta ttgggagatt cacttggtga taatggaaac 180
 aacaattact tggctaccac ggcacgtgcc gatgctcccc cttatgggat tgattaccct 240
 ccaagtcata gaccaactgg tcgtttctcc aatggctaca acattcctga tcttatcagt 300
 caacgacttg gtgctgaggc tacattgcca tacttgagtc cagaattaag aggaaataag 360
 ctcttgctg gtgcaaattt tgcttcagct ggaattggaa tacttaatga cactggaatt 420
 cactttataa acgtaatcag aatgtatagg cagctacaat attttaaaga agtcccaaac 480
 cgagtgaag ctataattgg agctttacag actaagagct taatgaatca agcactagtc 540
 ctcatcact 549

<210> 4038
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061d04d1
 <400> 4038

agaaaattaa gtaacatttt tttaatattg agactcagga atcacttagt acttcccacc 60
 atttatatat atatatatat tcttcgttgt aattttatgc aaaaagggaa gtttcttctc 120
 ccctttaact ttctaattcc ccaattagat attgaggaat acgaaattaa atcacaatta 180
 caataataaa aaagggacat aatgaaacta gcatgcgagg tgcatagact tattggtgtc 240
 ttcatgtggt aatagcatcc aaagccagga tgggtgctgag gttcattggg ttcatgtaga 300
 ttttagaacc tgacataatt tcttccacaa taagcctatt ggccttttca gatggatgga 360
 atgcatccca aaatgcatat tgggtctctat tggggcaaag gttggagagt ggtgtgcata 420
 gcccaaga 428

<210> 4039
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061d05a1
 <400> 4039

gaaaaacaca cacacaaaca ccctttgagt tcattaacct cttcagaaaa aaacaacaac 60
 aacaacaaaa aaaaacatca tcatcaaaaa aacttccgag agtttaaatgg caacacgcgt 120
 gatccctcca agaatcctca agaagctccg ttacaacaca acaaccaagc cactcaacgc 180
 tgcccacccc tcaatctctc cagtcctcgc cccaccgtca ctcttcgaga ggtcgcgcgtc 240
 ccctgtcgcg gatgctgttt caacaacatc cacgactatg gagacggcga atctcaacct 300
 cgacgacgcg gagcggtttt tcgcgtcagt atcgacggaa aagctgctcc ggtcgtccgc 360
 ggttttgcac gcgacggcgg tggggcccat ggtagacctg ggaatgtggt tgatgaagtc 420
 tccggtgttc cagaccgggc tgccgaagga tctcatcatg gccgccacga aggagacgtt 480
 cttctcgcac ttctgcgccg gcgaggacgc cgacggcgcc ggacggagca 530

<210> 4040
 <211> 502
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061d05d1
 <400> 4040

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 tttgattgaa tgcacaattt cttcacatta caaaactctc taatttgtac aaaaagtcaa 120
 tgaatcctga tttctgacaa atttagaaca ttgcagcttt taatcttctt cccaactcct 180
 ttctcatcaa ttgcctatca aaacctgatg cagccaaaag ccctctatct tcttcagccc 240
 ttctcagaag gtaaggcata accatatcta cgggcccaaa tggcatatac ttgctaactt 300
 gaaaccctgc attgctcaaa ccaaaggaaa gtgcctctga cattccatac agttgtgcaa 360
 attctagctt gtggtttacc tttccaacct ccaattcata tgcttttgct gcagccaatt 420
 tccctgattc aatattgtga gttgcaagaa caactgacat cgaaccgggt ccattagcaa 480
 tcttctcaag aagaaatgat ga 502

<210> 4041
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061d06a1
 <400> 4041

accaaataca agacacctga gccattcaat tcccctcctt tattgctttc aagtttcaac 60
 actaatttta ttatctgaaa aaatggcttt caaagtttcg ttttcccttg cacttgttct 120
 agtttccaat atcctcctcc ttgatacaac agctgctgga cgcagcattg gcgaaaactc 180
 caacttcaga ggaaaagaaa gagcctgagt tcttgttcaa gcttgaaggt ggggtgtata 240
 ttccagggat tggacctgtt ggatttccac ataaatttca tctcacacct taaaatccat 300
 tacctggtgg caatgaaaat ggaggaccgg aaccgcaaca ggatcaggat caccaccagg 360
 tagcagttat gttcctggtg gtgatgacac tttttgtccc aaaccctggt tatgaggttc 420
 ccattcccgg cagtgggtga agtggtccag caccagctgc accatgagtt aactcatgca 480
 tgaataatgt gatgcatg 498

<210> 4042
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061d06d1

<400> 4042

aatataatgt accatacgta aaggtgtgca cctattatca ttcaaggaac aaacacataa 60

aactgtgcat gaaaagagaa tatcaaattg gaatcataac agaaattatt tttgaggact 120

cattcatcag caactacttc gaaaaacaaa taagcttacg tcacactcaa ttcattctta 180

aacaagacta caagaacaaa cagaatgact tggcaatcca tgggtgttcac catatacacc 240

aatgtgcaca tggagcatat ttatttatga taagttatta ttatggctag aaaacagaaa 300

gaaaaagaca aacttaagca taaccacctt attaactacc atgcatcaca ttaatcatgc 360

atgagttaac tcatggtgca gctgggtgctg gaacactttc accactgtcc ggaatgggaa 420

cctcataacc aggggttggg acaaaagtgt catcaccacc aggaacata 469

<210> 4043

<211> 582

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d07a1

<400> 4043

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aatagagggg cttaagcttc atcttgcaga tgcaagaatg caagtgaagg aactagaggc 120

atcttccgaa tccagatttt tgaaatggaa gaataaagag gataacctatc aaactatcgt 180

aaatttccaa gttggagctt tccaggaact gagagctgcc atgaagtctg tcaaagatga 240

tgtgataaaa acaaaaagaa actacttaga ggaattcaag tactttggaa tcaagttgaa 300

aggtctagct gaggtgctg aaaattatca tgtagttata gctgaaaata ggaaattgta 360

taatgaagtt caagatttga aaggtaatat aagggtatat tgtcgaatta agccatttct 420

tccagggcaa agtcaaagcc atacaacaat tgagtttggt ggtgatgatg gagaactgat 480

tggtggcaat cctcttaaac aaggaaaaga aaatcgcatg ctttttaaat taataagggt 540

ttcgggtcaag caacaagtca tgaagaaata ttcaaggaca ct 582

<210> 4044

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d07d1

<400> 4044

atacaacatc gtagataaac attactgaat ggaaagttgt aaatacagca gattcagtaa 60
tatggcataa aaggccatga tgcttacata caaactgggtt acaagctaga gtttgcaaatt 120
cgcctcattt aataacagat tgaagctgaa atgagctgac ccttgagcct tgagtacagt 180
gtaatagtta gaatgatcac ctaacataaa tagaaaaaag ttcctaacgg ctatctctat 240
aaataagcac tctacagcat caagtggcat cctaactatt gccatcgttt agggggccttc 300
accgaagaag agctactggc tgcagggtttt ctaacacttg acagaacctt cgaggagggtt 360
ttgttcaatg aaagcctaga aggtcttgac tggactttct gtgggacttg agcagctttg 420
ggaatthttg atggcataat aagctthttct gtgctctcag ctggaagggtt gtc 473

<210> 4045

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d08a1

<400> 4045

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accacctact tccaacgcgc tcaatttgaa gcatgttttt cgcccgcgac ttggcgcgctc 180
aagccgaatc tctgtcaaat gcgcttttgg gtttgagccg gtgagctacg gagtcggctc 240
cagccgagcc gattggcaga gctcctgcgc catcttagcc agcaaggctc tttctcagga 300
acaacctcc gctgaccaga acagcggcac caccgaccac atcgccgccc tcaacgggtca 360
caaagccgcc gtcagcgact tccaactcgt tccaattgga aacctagcag aggccaacaa 420
caagccgctc ccgccgaagc cgctcacgat ctccgacctc tcgccggccc cgatgcacgg 480
ctccaagctc cgcgtcgcgt accaaggcgt tcccggcgcg tactctga 528

<210> 4046

<211> 555

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d08d1

<400> 4046

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accgaagttc ctttgtcgtg tgcgaaaaca atgctcgtct tgaaaggacg gtccgtgcgc 120
gggatgatag gctctctcgc gagcatcaca aaccgcgtga cgttgctcgg atcgtcttgg 180
attccgtccg ccatcacgtt caggccgtag agctccgccg cgcgtgcgct cgcgatggcg 240
gcggtgctgc ggagattgtt gctggcgacg aactcggcag cgccggcggt gtcgtccacg 300
gcctcgcgcg ccacgttcag gccgagtttg gtgagagtgt gctcgcactg cgcgagtgcc 360
tgccgatgcg aaatcacgcg cgtgaggaac tcctttcggg cgccggggag agcgaggagg 420
cagtgatgga ccgggagctg gacctcgcca actatgtgaa ggcggtggcg gatgatgaga 480
tcgtagtcc ggtggatcga accgtcgagt gagttttcaa ccggtaaaac cgccgatcgg 540
cgatccagag cttca 555

<210> 4047

<211> 88

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d09a1

<400> 4047

gaaatatgta ataatctcaa attatagaga gtatacaatt ttactatgtg aattgcagta 60
ctttcacgga attcatttgt agtctagg 88

<210> 4048

<211> 93

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061d09d1

<400> 4048

cctaaactac aaatgaattc cgggaaagta ctgcaattca catagtaaaa tgggtactc 60
tctataattt gagattatta catatttcct agc 93

<210> 4049

<211> 502
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061d10a1

 <400> 4049

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 ctttgattct tcgctttttt cttctcactt cacattccga ttcgtcgcag attctttcag 120
 tttctaaact tgatgatcgc cactgcctcc acctgtaatc gttagttgaa gtcacgtgag 180
 gtgggtccaga gaaatcaaaa tctccttcaa cttcgtcttc ctttaggtg taaaagtcag 240
 ctaacgataa agaaatgaaa tcgctaactg ttaatactga agattctttt tccagtttgc 300
 tggaacttgc ttctaacaat gatattgaag gcttcaaggt gcttttagag aaagattctt 360
 cttcgatcaa tgaggttggg ctctgggtatg gccggcaaaa cggatcgaag caatttgttc 420
 ttgagcacag aaccctttg atggttgctg caacttatgg tagcattgat gttatgaaga 480
 ttatactggt gtgccccgag gc 502

<210> 4050
 <211> 460
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061d10d1

 <400> 4050

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 attcaaggga atacagctta ataagaagaa cattgtaaac ttcactatct catttatctg 120
 ctggaaatat tcaacagggc agattacctc taattattcc ctcagaaaga aacaactttt 180
 tcaaccttag gcaaacagca aatcattcac ttggcttaac ttggggaact tcggaaaaat 240
 ctttagaaca aacgcaggct aataatgggt tttgtcgcat tataaaccaa actagcttgc 300
 ttgatagtga actcagaact ctagcttgct tgatagtga gtgaactcag aactctagt 360
 aaatagcaag ggcgaaaacc ctgaaacggg gcccgtttgg aagaaaaata gataacctcg 420
 ataggatttt tcgcctacta ttaattgatc agccccaggg 460

<210> 4051

<211> 531
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061d11a1

 <400> 4051

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 ttggagaggt cgacttctag gattcctcaa cttgatggac caattccata tgatgatgat 120
 gatgtgctct ctactccaaa tatatacaac tatggagaag tgttcagtga agactacaac 180
 atttctaata caccagctcc tcctgaagta ccagcaagca ccctgctct cttgggttcag 240
 aatgaagtgg gtaatgattt tgatgatgat gatgatgatg aacctccatt aaatgaagag 300
 gatgatgatg atttagatga catggaacaa ggagaggatc aaaatacaca tcatcttgtt 360
 ttggcccagt ttgataaggt gacacgtacc aagagcaggt ggaaatgcac attaaaggat 420
 ggcacatgc acataaataa taaggacatt ctcttcataa ggcgacagga gagtttgaat 480
 tctgattttg gtggggctgg cgctttcgtg aaatatgaat tcgaggtgtc a 531

<210> 4052
 <211> 411
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220061d11d1

 <400> 4052

atcaaactgt ttcttttaaat ttaataagaa aaaaaaacat catcctgttt tttaatgtca 60
 aaaagttacg cgaggcctaa caagcctatc tatcattatt atcatacaag ggattcttaa 120
 attcactaaa atgttcaagt atacagaact aaagaaacca catacttgac aaatggtggg 180
 cttaaaggaa atgcccaggt ctctaaccat cagttaaagg caaaaaattg ctcatctct 240
 atgtacaaga ggccaacatc acaatagtct cgaaagggtg aaaatattcc tatcttcac 300
 aatctttcac ttaataatta taatcaaaga aagggatcat gaaacacaca atgacacctn 360
 cgaatcatat tttagcaaag cgccagtccc aacataaatc gaattcaaac t 411

<210> 4053
 <211> 490

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220061d12a1

 <400> 4053

 ggctcgagat tatttactcc aaagaacagc actagatgct ttgagagtaa tagaggttga 60
 actcaacttc atctatcaag ctttctacac caaggcatca gtcataacca acaaggttagg 120
 gtttttcttt cgattagggc cctttgcttc actcgtggcg gccttggtgg tttttgttta 180
 tgaccaaaag cgtggctcca atccctttga tgttaaagtc acctacacat tactatatgg 240
 tgctgtggcc ttagatctcg tgtccgcgtt catgctcatt ttttctgacc actcatttgc 300
 attaatttac cctcacatct ctaaaaaaat tagtgattct gatggtggca aagaaacatc 360
 caaattagcc tctattttta gttgtttcct caagcttaag agaccgaaat ggagagaaca 420
 gaagcttaag gagccaaaat ggcttcataa taagagctat aagatattgc gtaggttcat 480
 gttagttcgt 490

<210> 4054
 <211> 367
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220061d12d1

 <400> 4054

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttgggg 120
 cccccaattt ttttctcccc ctgcgccaaa aaagccccct ggaaaaaaaa aaaggggccc 180
 caaacaccg gttttggaac ccctttgggg aaaaaccccc aaaacggaaa acctcggggg 240
 ggggcataaa tcccaggggc cacaaggaat ccccagggg tcttaaaaaa accccggggc 300
 ccaaacacat ccccaaaaat ttttttaaaa gggggtcttt tttgtcccca attttcaaca 360
 ttttttt 367

<210> 4055
 <211> 92
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220061e01a1

<400> 4055

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ctgctattgt gcgcgacttt ggacgagagt ga 92

<210> 4056

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061e02a1

<400> 4056

ttctcatctt tctctcttct ctctccaccc aaaccctaac tcccgaccct gttcccctct 60

cgtatccgtc atgaaaggag gaaagtccaa gaccgaatct aagagagccg atcccaaact 120

tgctgtgaat aagaagggag ccgccaccaa ggctaggaaa cccgccggca aggggaaggc 180

agcgaaagac cctaacaagc caaagaggcc tccaagtgtt ttcttcgttt tcatggagga 240

gttcatgaag gtattcaaca gagaacatcc tgaaaacaaa gcagtgtctg ctgtgggcaa 300

agctgctgga gcaaatggaa gaccatgtct gatgctgaaa aagcacctta tgtggcaaag 360

tctgagaaaa ggaaagtgga gtacgagaag aacatgagag cctataacaa gaaacaggcg 420

gaaggtccta ctggtgggga tgaagaagaa tctgagaagt ctgtatctga ggtgaatgat 480

gaagatgatg atgaggaagg cagtggccat gaagaggatg acgattagag aatggactga 540

<210> 4057

<211> 316

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061e02d1

<400> 4057

ggggccaaac aaaaaaaaaa acccctttta accgctaaaa gggaatgata aaccaatttt 60

tttgatccca aattaacccg attttaacaa gaaaacctta aatcaaacca aaaggcctac 120

aagagaaaaa ccccccttaa ctaaacagtg gggctcttgaa gtccccaaaa aaaaccccct 180

tttttaaaaa attcaccttt tggaaaaaca acccatttac gggggggggc gggaaaaatt 240

ttttggaac caaaaaattg tgtttcagga aaagcccaga cccctaaca cggggggcca 300
aaactattgg aacccc 316

<210> 4058
<211> 521
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061e03a1
<400> 4058

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ggccaagacc cgcaaaccct agccgtgggg ctcccagata acgctttcgc tctctccttc 120
gatcgagcca ccgaggccac tctacaacgc tttattttac ccgagatctt gtggaagctg 180
aagcgatggc tcaggctcgg aatggaagtg agcctgagcc ggagcctgaa acacatcgac 240
aattacctct cccacatcat caagaaccgc aagctggagc ttctgaatgg cactgggtcc 300
caccacgacg acctcttata ccgcttcatt aggaagaaag aatctactc tgaagagttt 360
ctccaacacg tggcactcaa cttcatcctg gcagggcgcg acacgtcatt ggtcgctcta 420
agttggttct tctggctctg cattaagaac ccgcatgtgg aggaaaagat ccttcacgag 480
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<210> 4059
<211> 293
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061e03d1
<400> 4059

cccgaactgc agcagcatta ctttttaata atcaaaaggt ttacaaaaac ataaatagta 60
ttcatcatca gatgagaaac ttgggagtaa agggaaattt catttataca gacaacgtaa 120
attaaactaa cacagatgaa atgatccatc attgacaata ttctatatta agtaatatat 180
aaatttctta taattaatat tatttcttta tttaaaccga tgatgtatct atcggcttaa 240
ttaaccaaat caaaatcact ttgaccacc agtaatagca ccctcggggg ggg 293

<210> 4060
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061e04a1

<400> 4060

ggctctatgag aatcattgtg ctaggaatga ccgtgaggca gatcttccaa taacctatct 60
caaggagcaa ttgaaccaag ctatatcagg ccaaatatca ccagaagctg ttgtggatct 120
ccgtctgcaa gcctataatg aaataacaaa aaatcttggtt aatgacaaca tcttttcaca 180
gtatatgtac aaaactctac ctagtggcaa ccatagttgg gctttcaaga agcaattcgc 240
catccagtta gccctttcaa gtttcatgtc cttcatgcta caaattgggtg ggaggtcccc 300
gaataagatt ttgtttgcc aagaactgtg aaaaatattt caaactgatt ttcaccctgc 360
gtatgatgca aatggattga ttgagtttaa tgagcctgtc ccatttaggc tgacaaggaa 420
tatgcaagcc ttcttctccc atggagtggg aggccttaat cgatcttcaa tgtgtgcagc 480
tgcacatgct gttgcttcac ctaaacaag ccaggaccta t 521

<210> 4061
<211> 402
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061e04d1

<400> 4061

aaaaaaaggg tttccacca ggggttaccg ggggcccccc ggcaaaccgg gttaaaaaac 60
ccgggggtca cttggacaaa aaaacggccc cggatatatta aaagggggcc cccccggggc 120
agggtctggg gggtaaaacc ttccggggaa acgctttata gcccataaaa aaaaaggga 180
ccccattta agggtttacc aggggggtta aaccaattg ggggcgggga aatggcccc 240
cctttttgcg ggccgggtac aaacttttaa agaatacaga cttaaaaccc ggggggcccc 300
gggggggccc ttatgcccaa gtttcttggg ttcaaggggg ttttaacca ctcaggaacc 360
cccctttgga cagggtgggg ggggacccaa aggggttccc cc 402

<210> 4062
<211> 469

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220061e05a1

 <400> 4062

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 aaagaaagag cgatcatttc caatcacaat ggcagatcaa ctcaccgatg aacagatctc 120
 ggagttcaag gaagccttca gtttggtcga taaggatggc gatggttgca tcacaacaaa 180
 ggagcttggg actgttatgc gttcgttggg tcagaatcca acagaggctg agctccaaga 240
 catgatcaat gaagtagatg ctgatgggaa tggcaccatt gacttccttg agttcttgaa 300
 cctcatggct agaaagatga aggacactga ttctgaggag gagctgaaag aagcgttccg 360
 agtggttgac aaggaccaga atgggttcat ttctgctgct gagctccgtc atgtgatgac 420
 caaccttggg gagaagctca ctgatgaaga ggttgatgaa atgattcag 469

<210> 4063
 <211> 372
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220061e05d1

 <400> 4063

 aataataaaa taaaaaaata tatattggga aaaaaattga caaaaaaac ataaaaaaaa 60
 ccaatgaacc aaaaaaaaaa aaaaaaaaaa aagtttcaaa aaaaaggga aaaaaaggaa 120
 ataaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa agaaaatgtg aaaggga 180
 atgaagttaa aacaaaatta aacctgtgaa aattttccca actagaaaaa aaattgggga 240
 aaagggggac ccccaaaaat ggggccaaag aaccttaaaa aaaccggga aatttattgg 300
 gggggcccaa aaaaaaaaag ccctataaaa aaactaaaca cccttttaaa aaggggggtc 360
 cccccaaggg gg 372

<210> 4064
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220061e06a1

<400> 4064

cgctttttctt cgttttccaaa cccgaaaggc ccaaccacag agttctccatt gcccctcgct 60

ctctctattg gttcacgcgc ggcaattgga gattcacgcg ccaccatggc ctcaccaccg 120

acactcccta tctcctccca atccagcgcc tccggcggct ccgcctcgca gtcccagcct 180

ccgatcgcaa cgccggcggtt ccgcgccttc atctcccga tctcctcgtc cctccgtcac 240

gcctttgcg agcgccgccc gtgggcggag ctcatcgacc ggagctccat gtcccgacct 300

gacaccctcg ccgaagcata ctctcggatc cgcaagaact tcggctactt ccgcgtcaat 360

tatctaacc taatcgcgct cgcgctggcg gtctcgctca tcacgcatcc gttctcgctc 420

tttgttctct ttggcctcct cgcgctcgtg tc 452

<210> 4065

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061e06d1

<400> 4065

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tttttttttt tttttttttt tttttttttt tttaaacaat taaatcggcc ctttacgaca 120

agggaaaaaa aaaaggccca tacaaatttc ccgaaaatgc cgaacatttt cagaggcaaa 180

atcaaggact aaaaggcctt cctggggggtt aaatagccca ataatttttg ggggaaaaac 240

aaaaggttgt aagcagtacc agaactaaac cctaagcaat tcgcctggga tctcaaaggg 300

caaaaaattt cgcaccaatt ttcaatttac cattttccac caaaaagggc cgaccaccc 360

tgaaaagaat cccccggaca cagggttcgt ccaaatcccg ccgtttacac ccgcgcaacg 420

gccggcccgg cggttgaagc gggggcccca ccggggaacg aggggaatcc g 471

<210> 4066

<211> 596

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061e07a1

<400> 4066

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cagctcctgg gttgctacat gctgtacgag gttgtagggt tcacgcaaat ctcggggatg 120
cagattttgt acaagacctg tgggggaacc aacgctgctg ggagaggggt tgaggagagg 180
agggacactg ctttctctgt gatggagaat ggggtggtca ctggccatgg attctatgcc 240
accagctacc agtctttgta tgtgatgggg caatgtgagg gagatgttgg tgattctgat 300
tgtggggagt gtgtcaaaag tgctgtccag agggctcatg ttgaatgtgg aagctccatt 360
tcaggccacg tctatttgca caagtgttgc attagctata gttattaacc taatgggggt 420
tcaggaagac actgtttctta gttcatcat cgtgcaattc ctattcttct tcttcttctt 480
cttctggtaa atactaatac ctagacaccg aatgagatag gaatgaatga cattaaattt 540
agtgttgttg aaaagtgttc ttgcacaact gagtctctga acttgataga gaaaga 596

<210> 4067

<211> 416

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061e07d1

<400> 4067

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gcaaccaccc gggagggaga tgattcttgc ccccccgaga aagaaaaaaa aatgggtcca 120
tgaagaaaaa agagccgatg gggcaaaaaa aaaaacgccc caccacacaa aagaacagtg 180
gagaccccca ctttgcccg gaaacgtttt tgccccaaa ggaaaaaaca gcaactcaaa 240
aaaactgccg actgctgcag aaaaaagaat gactttttga aaaacaaatc ccgccccgga 300
aaaaagaago ccacccaaaa acagcactgg gccgggacaa aaataccccg actgttgcca 360
aagacacgac caaagccaag agctttcagc acaaaaaccc ccccataggc cccccc 416

<210> 4068

<211> 549

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061e08a1

<400> 4068

cggaaccgaa acccttcgcc gcaaaaaatg cctcccaaat ctgccaaatc caaggaagct 60
 ccagctgagc gacccatcct cggtcgattc tcttctcacc tcaaaattgg cattgttggc 120
 ttgccaaatg ttggaaaatc tactctcttt aatactctca ccaagttggc aatacctgct 180
 gagaacttcc ccttttgcac cattgagcct aatgaggcgc gggccaatgt acccgatgaa 240
 cggtttgagt ggctttgcca attattcaag ccaaaaagtg aggtctcggc tttcttagaa 300
 atccatgaca tagctggatt ggtccgaggt gctcatcagg ggcaaggatt ggggaatagt 360
 tttttatctc acatccgtgc tgtggatggc attttccatg ttctacgtgc atttgaggat 420
 ccggacatta ttcattgtga tgatactgtt gatccagtca gggatttaga ggtcattact 480
 gaagaaatgc ggcttgagga tattgaactc atggaaagaa agatagaaga tattgagaaa 540
 agcatgaag 549

<210> 4069
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061e08d1
 <400> 4069

gagagggcaa aatccactag agattttaag cctaaataag taaataatat tgaaaatggg 60
 cccaaaatta cattttcaaa cttgtacaaa ttgtgcaaca tggtaggcgc ctataataag 120
 acacaaaccc catgcaaaac cagctttgct ttttgagatg aatctctggt tttacttttt 180
 gccccacca aaaacgttga acttaaagaa tataatggct ccattttgga ccacatatgt 240
 tttcccttcc tggttatact ttccagcagc cttaacagct gactcactac caagttcctt 300
 tagatcctca aacttaatac ccttagccca aataaatcct ttttcaaat ccgtgtggat 360
 agcccctgga acttgaggag cctttgattg gacgttaatt tgccaacatt taacctcatg 420
 aggacctgct gtgaaaaagt aaatgagat 449

<210> 4070
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061e09a1

<400> 4070

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gcctcaaggc aagcgcaggc aaagtgagtg ccgcagttaa agtctcagct cccaagcca 120
caaggttggg catcaaggct tcgctgaaag acgttggagt cgctgttggt gccactgccg 180
cgagtgcagt gctggctagc aacgccatgg ccattgaagt gttgctgggt ggtgatgacg 240
ggtctctggc tttcgttccc aacaatttct ccgaggcctc tggggagaag atcgtgttca 300
agaacaacgc atgtttcccc cacaacgttg tgttcgacga ggacgagatt cctagcggcg 360
tggtatgcagg gaaaatctcc atgagcgatg aagaccttct caatgcgctt ggtgagactt 420
acagcgttac tttggatgct aagggaacct acagtttctt ct 462

<210> 4071

<211> 455

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061e09d1

<400> 4071

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tttttttttt cttttttttg tctcaaaaaa caaatgaat tccagaaacc gattaatacg 120
cttgttttcc ccctcggcca aaccggaaa attcacgcca tttacttttag aaaaaacaaa 180
atgtgtaaaa gaaggaccca tgggaaaact taaccgtagg gaacaacccc ttggaacaga 240
catcaattcc cagggacttg tccccccata ccacctcctt ggggaggga acgaaaaaaaa 300
cggggggggc cttaccctc caaggacacc ctggaagtcc caccgggagc cttgaaaagg 360
gccaaccga caagggggag tttccccgag tccccccgg gtgggacatc ggccttttcc 420
aaccacacct ggggggggaa ccccgctcag ttttt 455

<210> 4072

<211> 584

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061e10a1

<400> 4072

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 t t t c t c t c t c a t c a a t c c c a c a c c a g c g a c c t t t a t t c t c a t t a a t a a t a t a a t c t g a g t 120
 t c a t g t a t t t a c t t t t a t t t t a t t c c t g a a a c a a g t t t t t g g t c a c t g g t t a t a g t t g c g 180
 c a t t a c a t t t g t g t c c a c t t t g g c a t t t t g a c c t g g c c t g t g t t t g g t t c t t t c t t t g g t 240
 t g t g t t g t g a g c g t g a t c c t g c t a c a t g c t c a c c t g c t t t t a t t c c c t g c a a c t g c a a c 300
 a g a a g a a a g a g a t a a t g g c a t g g c a g t g g t g t g c c a t c a c c g g g a a c c a a c g a c a c a c t 360
 c a c a t g g a a t g a a t t a t a g a c c c a g a c c t a c c a t t c a t a g a t c t c a a g g a t c t c a c a g t 420
 c t g c t t t t t c t c t t c a t g a a g a t g t a c t c t a t g t g g t c t t c t g a g t g c t c a c t c t g t t g 480
 c t a g g a t t c a a a t t c t c t a t t c t g c c a c t t g g t t a t g t g g t g g c a a a g t a a g a a g a c g a 540
 c a a a a c c a t t t t g g c a t c c g g g t t c t g a t t g g c t t g a t g t t c a t 584

<210> 4073
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220061e10d1
 <400> 4073

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 a a c a t t c c a a c a a g a a g a t a c t t a t a c a t g a c t t t c c t t t t t t t c t t t t t a c a g a t g a 120
 a t a c g a g c a t t a c a t a g c t a t t g a c a c t a a t g a c a c t g t c a t t t t t a a c a t g t a a a c t a c 180
 a c t t t t t a a a c a a g g a g c t a t a g t g g a a a a c c a a g a t g c t t g t c a c c t a g g g c a g a a a g 240
 c t c c a t g g c t t c a a c t a t g a g t g a a g a t t c c t c t a t t a a a t c t g a a t a t c t t t g a g g c t c 300
 a c a a g a c c g a a a c c t t g g t g t t t c a a t c c t c t g t g a g g c c t c c c a t c t c t c a g c t a a g c c 360
 g t c c c c t t g c a a c a t c t t t a a t a c t t c t g a c a t c t t g g g g c g g c g t g a a g g a t t g a a t t g 420
 t g t a c c t a g a g t g c a a c c t g a a c c a t t t t c t t c t a a t t g a a t c a g a t c a a a g 471

<210> 4074
 <211> 599
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220061e11a1

<400> 4074

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tccacacagg tacactatgc cttcactctc agaagcctac cgagcccacc cCGTgcacgt 180
tcaacacaag caccctgact taaactccct acaagaactc cccgagtctt acacttggac 240
acaccatagc catgatgac atactcctgc agcttccaac gagagtgtcc cCGttattga 300
tctcaacgac ccaaTgctt caaagttgat acaccatgca tgcataactt ggggagcgta 360
ccaagtggTg aaccatgcc aacccatgag cctnctcaa gacattcaat gggTtgggga 420
gacactcttc tctctccctt gtcacaaaa aaaaaagca gctcgttccc ctgacggTgc 480
tgatggctat ggacttgctc gcatctctta cttcttccca aactcatgtg gtctgaggga 540
ttcacatttg tggatccct cttgagcatt tttcgcaatt tggcccaaga ttccacaat 599

<210> 4075

<211> 410

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061e11d1

<400> 4075

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tccccagtat tctctctcca gtttagagcc aaacaaatat atctacatac atatacacc 180
tcttgaactt atttattgtt ggcacgac cccaccaagt ttccattcat attagcaaa 240
aaaaagaaaa agaagaggTg tttcattcat gtttggtaga aaatagacca tgcaagagg 300
aaggatcgaa gcaattgtgt gaggtggtt tacatcaaac gaaccggtaa tagctagcta 360
ggtgcacaaa gccgaacggT tgagagtgcc ttggtgaaat gctttgcttt 410

<210> 4076

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061e12a1

<400> 4076

tctcattttc tttctgtcga gaaaatttag tgaacccaaa aggagagaac tttctttggt 60
ttgtgtttca ttttgttggt gttttctgta agattaaatg gctgagggtt tgaccaaggc 120
gagtttggtt tcctcttctt cttcctcatg gcatgggggtt ggtcaacggc atcatcgaag 180
ggtttcaacg gtttccaaca cttgtagctt cggttctggc gtgggaaagt tctcttcttt 240
gaagatgaag tctcagggtt tcagatcttg gtcctcttct tctgagtttc agggataaa 300
gcttgtcttt catgtaaata gaggattacc caatagggtc aattcgcgct tgagagcttc 360
aactggggct cagatgagct ttagactagg gaaagttagc aaatgggtggg aaaaggggct 420
tcaacccaac atgaaggatg tgacttcggc acaagacttt gtggattcac tgttaagcgc 480
aggggacaag ttggtggtgg atgatttctt ctctcccg 518

<210> 4077

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061e12d1

<400> 4077

gaacaagaaa caaattatcc attggtgaat aaaatggcat tcattttaca acaataggat 60
aagaagcgat tcctcataca cgcaaaaaag taactattaa ctagtaattc tacagcttct 120
aatttccta acctcagcaa tgcattgatt caaaaaaaca tgcctttgag gaatacacac 180
tatcatacta tgtgagttaa tctgcaatga tatcttcatt ctcacaagta tattatgtga 240
agatattaca ccaaaccaga tctacactgt acaagggatg gggtcagaag atgggttttg 300
cttacaaact gaccacatca tctccctgaa gtgggtaagg ttctcttttt agagacctca 360
gaattgagaa tcattgaagg tgaaggaaga gattttgaac caggagcagg agcaggttcg 420
gttcccaact cttcatctgc atgtgcaggt tgtaaagggt cctgtgagtt ggtgaaggac 480
agaatctttg tggcag 496

<210> 4078

<211> 621

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220061f01a1

<400> 4078

catagagata acactgagca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca 60
cctaacctaa agtgctaggc tcagcgctct tgttcaacgt gtggctcgctg ggctcatggg 120
atgcgaatgt tgaacggggt cattagtcac gccccgttca acattcagag ggattagtca 180
accaacatag tgttacacgt tgcaagattg aacactagta ccagtttaag gacgagctaa 240
tgtaaggctt accagttaaa cgggtgtcacg gtgtaaagca cgccaaaacg gcccaccacn 300
acgaaccaac aaccgatcga aaggagacct acaaaaacga aaactgttag gcaaccagat 360
aagtaacgga ttagattaaag ttggcgtaca accataggcg tggctgtggt ataaaaaacc 420
cagtatgccc agcgtgcaac gagtaccgag ccaaacatg taggtatcgc atgccagcaa 480
tgatacaact accagccata acatggaaaa cccaatgac acaatataca ataccacaa 540
acgcgaatgc gcaaatgtca cgattgcacg gacacaaaaa caggtagcat ggcaatgtaa 600
aggacaacag tgcaaaacag a 621

<210> 4079

<211> 543

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220061f01d1

<400> 4079

tcgattccgt tccaggaagg tttcccgta tcaactgtatg acgtcctcct tctttggggg 60
gggggggggg gggacatacc caatgacggg tgcaggtgaa gaaatagata ggagcaccaa 120
ataggggggat gagcgtaaca agggaacaaa agaaaatcta ctacaaaaac ccacncgtaa 180
ccggtgaaga ataaagagaa taaacgcaga aatgcagaag atagaaatat tgaaatagag 240
gcgcacgttt ggggtgatac gcaaatagtt gaaacggatt gtatttaaaa aaacacaacg 300
aaaagaggta aaattttata tcataccaaa cagatagttt ttgtaagacc tttgcgtcaa 360
taccaaaaag gagtgaaatg ggttaccgaa aaaaagaaag taccaattaa tggtagcggc 420

gcgctggcgt gacagctttg tctggagcgg gatcgtcgct agccgcaggc aggttaggggt 480
 cagtaccggg aggtatgggg ggctgataca aaatactgca aaatatgtga ctttgaaaag 540
 aag 543

<210> 4080
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220061f02a1
 <400> 4080

ttcattcctg acaaggagct cggccaaatg atcgagagga ttgacgtcaa cggcgatggc 60
 tgcgtcgaca tcgacgagtt cggggagctc taccagacca tcatggacga gcgcgacgag 120
 gaggaggaca tgaggaggc cttcaacgtc ttcgaccaga acgccgacgg cttcatcacc 180
 gtcgacgagt tgaggaccgt cctgtcctcc ctcggttga agcagggcag aaccgtccaa 240
 gactgcaaga acatgatatc caaggttgat gttgatggag acggcatggt cgatttcaag 300
 gagttcaagc aaatgatgaa aggggggtggc ttcagtgtc tcacttaaatt cattttcttt 360
 cacattcatt caatctatct attcccatatc atctttgctt tggtntggtc ttgtatataa 420
 gtttcaggag aaataattac atgattcgaa caacaaggta attgcgtttt ctct 474

<210> 4081
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220061f02d1
 <400> 4081

agagaaaaca caattacctt gttgatcgaa tcatgtaatt atttctcctg aaacttatat 60
 acaagaacaa aacaaagcaa agatgtatgg gaatagatag attgaatgga tgtgaaagaa 120
 atgaatttaa gtgagagcac tgaagccacc ccctttcatc atttgcttga actccttgaa 180
 atcgaccatg ccgtctccat caacatcaac cttggatatac atgttcttgc agtcttggac 240
 ggttctgccc tgettcaagc cgaggaggga caggacggtc ctcaactcgt cgacggtgat 300
 gaagccgtcg gcgttctggt cgaagacgtt gaaggcctcc ctcatgtcct ccttctcgtc 360

gcgctcgtcc atg

373

<210> 4082
<211> 563
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220061f03a1

<400> 4082

ctctgaatgg gggcttctct tctttgttcg attttgacat gaactatgat aatgaagcag 60
atgggtggcta tgatgcttct gctgcttctg agcagtggaa cttttctgaa ggtgtcaagt 120
cgtcacccct cttgcaagat gatctgcagg aggagcatcc agttgagtct caggatgtga 180
ggagcaaaca gagggtcaa atgctagaag acttggaac agaagccttg atgcgtgaat 240
ggggtttgaa tgagaaggct tttcatcatt ctccaccaa agattttgcc ggttttggaa 300
gtccaattca tttaccacct gaagagcctc ccacattgcc tccacttgat gatgggttgg 360
gcccttttct tcagacaaaa gacgggggtt ttctacgctc tatgaatccc tcaattttca 420
agaattctaa aagtgggtgg agcttaatca tgcaggtatc caaccctgtt gtggtacctg 480
cagaaatggg ttcttgata atggacgttt tgcagtgttt ggcttcagtg ggtattgaaa 540
agctctcaat gcangcaaag gag 563

<210> 4083
<211> 371
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061f03d1

<400> 4083

gggccgctta aatttgccct tgcaatataa ttaatatatt ctgcaaaaat agtcccccta 60
tttggggact ggaatataat ttacccatt taacatacta aactgggttc cagagggcct 120
aaattccaca gacccatgca aaagttacaa gggactttac caaagaaaaa tgggcctaga 180
gcaaaattcc caaaatccac catggtctct ctggatctgg gactttgcaa tttttaag 240
gtccggccaa tttcattggt gctttaacaa gaccaacaa tgcccttacc caagttcctg 300

agtgaccagg agctccaaat cacatggggtt gaagaaatta actccaaaag attacaaaaa 360
tcttacttgg g 371

<210> 4084
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061f04a1

<400> 4084

ggctaagtag agaggtagct ttccctgtaa gactgttact taagattacc aagaattcta 60
gctagctggt tagttctttt gtcatttcaa agagaaactg agagagccat agctagggag 120
aataccatgg acaaattgta tgggttgagt catctcttca tgacagtgtt tcttcataac 180
ttctccatgt tcatgggtgg accagccatc accgatgtca caatggctgc tctttgtccc 240
ggacaagatg aatgctcact tgccatctac atcactgggtt ttcaacaagc gatgataggg 300
ctgggcacgc ttgtgatgat gccactattg ggaaatcttt cggataagta tgggaggaag 360
gccatcctca cactccctat gatcctcaca atcattcccg taggcatatt agcttacagc 420
aggacgaaaa aattcttcta cgtctactat gtgtttaaga tactcatttt aatggtttgc 480
gaaggaagcg ttccttgcct tcgcctaact tacgtggcag ataacgttcc agaaagtgga 540
cgaagcactg tatttggaat tc 562

<210> 4085
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061f04d1

<400> 4085

gtcaaatgtc tactaggaat gaacttatac aatatattgt ttcctaatca aaagcacgtt 60
aaaggtagag cttgtacata tgaggatcgg ctaaagcaca ataaaagcac cgttgaaggc 120
tctaactaat ttatatcgc ctaattcaaa atgggaggag ccactctaag catcaaactt 180
tgaacaaaag atatcatcga agcaaatcca atgcacatta tactgaatcc aggaaaatca 240
aaaggtgcct tttcagaaag gaatagagct gttaatggag agaaaaccaa gggagaaaca 300

atatgtgcaa ttgaacatat gcctgaaatg caaccttgag cctttccctg ctcatgggga 360
ccagcttctt tagatacaat acttcgtata caaggggtgtg agaaaacata taaaattgag 420
aacatggcgg aagcataagg aaccaaggag gaccatgcc a tgctgtaaag gaa 473

<210> 4086
<211> 591
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220061f05a1
<400> 4086

tgccatggca ctgcatttca aaacgtgcat tttttctttc aaacctcatc aaattatgac 60
aacaaaggct cagctttctc aaagcttcaa tcctgctaaa cttgattctc ttcacattgc 120
caacaaatgg aacattgttc aagaagaaag atctagcgca ttattcacia aaactggaga 180
tctcatcagc attaatcact cagacaaact ggaggtggtc aagaatgaat ttatgaacac 240
tgtgggtgaa aattcattaa gaggtttgta catgattgat gccatgcagc gcctaaatat 300
tgattaccac ttccaagagg aaattgaaga attcctaagg aggcaatatg tgaattctac 360
tactattgcy ggtggttatt atgggtgatga tattcatgag attgcacttc gcttcaggct 420
attgagacia caaggtttct ttgtgcccga agaggtgttt cacaagttca caaacaagga 480
gggaaagtcc aaccaanaac ttggtgaaaa tataaaggga atggtagagt tatatgaagc 540
ctcaccttta ggcatagcag gggaagacac acttgcttga agctgtgaat t 591

<210> 4087
<211> 445
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220061f05d1
<400> 4087

aataaataaa atattttatta attcattatt cagtactctt agtcttagaa cacgaattta 60
caaaatcttg tagttaatta aacttatttt ctataaaatt tagtatgaga aaatagtga 120
ccattatgga acttccttca atcagtgagg tcaatttatt ttaggccaac ctagagatta 180
aagaaaatca tcataaagca atgacttgac ttgctcctct agccctggaa gggactgttt 240

gtcgtcataa ctatacatca atggtaccat ccttgcaaga ttgagtgagg ccttagtgaa 300
 tgtcgaatgg aaatgggttac caaacaagca ctcttggttg aggctcttcc atgcatcgga 360
 gatcttactc atcacccttt ttcttgctgt tctcgtcgtg tagtgtgggt gatccatcat 420
 gagacaattc acgtacgatc catca 445

<210> 4088
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061f06a1
 <400> 4088

aaaagataga gcaaggaact cataaaagtg ggaggaatgt ggggttgaaa gcttatgttg 60
 tgtgccaaagt gcttgagatt gttgtcaaaa aggaaataaa acaagctgaa ataaaaatcta 120
 cacaagtcaa aatcaggatg ttcttccgac cagaagatgt atcaaatgag aaggcatatt 180
 gctctgatat acgagagggtg tattacagtg atgaaacata tataatctct gtagaatcca 240
 tagaaggga atgtcaagtc agaaaaaaga atgatattcc cgaatgcagt gctcttggtg 300
 gaatcttcca aaatgttttt ttctgcgagc tcttggtg 339

<210> 4089
 <211> 527
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061f06d1
 <400> 4089

gcaacaacaa atattcataa cagggttaaaa aaaattgggtc tcaattttca actacacatt 60
 gggaggtaat caattcccaa ccatttcttt cataaacagc caaaatacca tctaatacaag 120
 aaaatcctag ttgatagaaa atgagcatca tccattcaat tccttggttg aggaaagtta 180
 aacaaggaat tagcctcaac aatgaccaa tggatatcac tatatacaag ggtttctagt 240
 ttttggaacc cggaatgatg atttgcaata tcttggtgac tgttatgaat acaataagca 300
 tgacctaatg tagaaggccc atcttctaag tggagctctt actgtccact gcttcttga 360
 gctttctccc caatgctgat gctagaggag gaggcacagc attaccaatc tgccggtgct 420

tgtgtatgat attgccagca aattcatagc tatctgggaa agcctgagac cgagcacatt 480
cacgaacagt aagaatccta tcttggtcac ggtggaagca cattcca 527

<210> 4090
<211> 593
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061f07a1

<400> 4090

cttttgacag aaattaatta ttaaaataac taataaatat ttataactaa aaaactatac 60
gatagaagaa tggcataatc tatcaatcaa taacaaagtt tataatctat cttacagttt 120
tcaaataatac attaataattg atagattata actcagcaac acgacgccgt tttccgcgaa 180
gaagacatgg acgacgacga cgacgagtct caggaggacg gagactacga agaagaagac 240
gacgacgttt tggccgacga cgaagaaaac gagccctctc cctccacggc tcttgccgtc 300
accgtcgccg tccccggttc ctccgtctcc aacggcggtg ccgctccaat ttcgacgccc 360
accgtcacca ccatcgtcgt cgcagactcc tccgatccga agcggcggcg cctcgagcca 420
gtcgaggaga aaaagccgcc gtccgacgcc gacgactcgc ggcggctggt tcagcggctg 480
tggaccgacg aggacgagat cgagctcttg caaggcttcc tagactacac cttgcagcga 540
ggatcctctg accacaacga cacggctatg ttctacgacc aaatcaagtc gaa 593

<210> 4091
<211> 529
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061f07d1

<400> 4091

gcacaattaa gaactcacta ctttcgcac ttttacaaca tatataatgg taaaagcca 60
tactccgca ccagttactt caatctgttc tgtacatgta tgagaccatt gaaatttaga 120
ggaacataaa aacggctaaa atgtactaaa aacatTTTTA ttttaaagga caagtgtctc 180
accgaatcag cgaaagctaa aatcgaaaag aaaaacacta gttaccactt actagttact 240
actagctaac cactaagcta tgagaatgaa ccaaccattg atgatgaaga ggaagaagaa 300

ctccaatcac tcaactacaaa accaaaaaaca aactaaaaga tttgatcaac ctctccgtg 360
 tgaccgcaac tcttccatag cagccttgat ctgacctga accagctcca accgctttga 420
 gtacacttcc aactccaata tctgttgttt cctccatttc tcatccacca tttccccacc 480
 ggcaaaactc caattcatca aaggcatagg gttcaagttc aacgaaaac 529

<210> 4092
 <211> 301
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220061f08a1

<400> 4092

ctttatacaa aagttctgct catccttaac ccatggatgt atggtgctga tagactatac 60
 catagacgac tggttgactc catctttcat ttccgccttc aagaaattat cttacatgat 120
 tcccatattc ctggacattc gtatgtgctt gcttactaac acattacgcg ctttctttgg 180
 agaacacacg gcctacgacc acgacgatca ctcatgggga cggtgactac gcggacgctg 240
 accacgacg tagacacgct gactaagacc ctgagccctg aaccttcacg gatgtcgcac 300
 g 301

<210> 4093
 <211> 410
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220061f08d1

<400> 4093

ggacaacaaa aagctttctt cttgcgaatg gactacaaaa cttttgatgg tacagaggcg 60
 ttattccggt ccagttcctt aaatgtgggtg tgcacatgca tgagaccttg gttatccagt 120
 ggcaacttacc ctccgggtcta ctgaactata aacaaccgta tgtaaaggga caagcgctca 180
 agcgagttag cgctgggctaa cgtaggcatg cttagcacca gcgaccactt accatgcctt 240
 actagctaac cactaagcta tggctatgat ccagccatgg acgatgacac tgaatacgaa 300
 cgtgacatga gttcctacaa aagcaacagc agactaaatg ctgtgatcaa ctgtttccga 360
 tggaacgcta ctgctccata gcatgcatga tctggttccg atccagctac 410

<210> 4094
 <211> 535
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220061f09a1

 <400> 4094

caacttaaga gatcaatatg gccaccatta ccaagcctcc ttctaataata tgtttctctcc 60
 ttctgttgct tctagcacac ttccatttgg gccaaagcca agttgagttg aattactact 120
 ctaaaagctg cccaaaagct gaagagataa tcaaggaaca agtcacacaa ctatacaaca 180
 agcatggaaa cactgccgtt tcgtgggtca gaaatctctt ccacgattgc gtgggttaagt 240
 catgcgatgc atcactactg ttagcgacgg tgagcgatgt agtgtcggag caggcgctcg 300
 atagaagttt tgggatgaga aacttcaagt acgtaaacac catcaaagca gcggttgaga 360
 aagaatgcc cttgacgggt tcatgcgctg acattgttgc tctttctgct agagatggca 420
 ttgccttggt gggaggacca agcattgaaa tgaagacagg gcgaaaggat agcanagaaa 480
 gctatgcaac ggaggtggaa gccttgattc caaaccacaa tgattccatg tcctc 535

<210> 4095
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061f09d1

 <400> 4095

ccataaacct ttaagatggt gggctttggt agctgtagta gtaacatatg acatgtctat 60
 gaacaaagca aacagaaggg aattacttcc cgcaaatagg gagcgtgcag gaagtaaaag 120
 cccaaacata agcgtatata taaggctagg cccaatggcg tattgcactg aatatggtaa 180
 cctaggccca gtacgtccca ccggtttatt ttggcgact cgtgcattat aatctatgct 240
 aattatacat attatcatgc acaaagggca accttatgct atatatttaa ttggcattga 300
 ggtagcgaca atcctttctg atttcacctt catctcctgt taaaggattg gtctctgaca 360
 acaaaagaat ggcccttgag aattgttggt tgaaataatc attgtcgttg gccatctttt 420

ggacataagg tgcagttatt gggtcagtgg caagc

455

<210> 4096
<211> 597
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220061f10a1

<400> 4096

ggacaccaat aaggaggttc aagaatttgg agacaaaagg ggttcctttc ccaaagaacc 60
aaccatgag aatatactct agccttttga acgctgagga ttgggccaca aggggtgggc 120
ttgtgaaaac ggattggagc aaggcccat tcacagcctc atacagaaac ttcaatgccc 180
taacctcttc ctccactggc caatcactgg acgccacggg gctggccaag atccattggg 240
tgcaaaagaa ttacatgatt tacaactatt gcactgatat tagacgtttc ccacaaggcc 300
ttcctccaga atgttccatt gcttgagaat gttcattatt caattcaatg ttgcatatta 360
ttatatatat aaaaaaatg gtcccatat acgtgacacg tgtatgccta ttacgttgat 420
ttactttctt ggataaacta atgttactaa aactatgatt atggttggtt ggtttgtgct 480
ttaatttggt gagcactact tcattgtttg tgatcacana agatgattat agcctgcaaa 540
attatattca tgcccggtga tatgtgctga aattggaaag tatcttcatt aaataaa 597

<210> 4097
<211> 464
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061f10d1

<400> 4097

aactccaaca attttattaa tgaagatact ttacaatttc agcacatata cacgggcatg 60
aatataattt tgcaggctat aatcatcttt tgtgatcaca aacaatggag tagtgctcaa 120
caaattaaag cacaaccaa ccaacaataa tcatagtttt agttacatta gtttatacaa 180
gaaagtaaat caacgtaata ggcatacacg tgtcacgtat atggggacca ttttttttat 240
atatataata atatgcaaca ttgaattgaa taatgaacat tctcaagcaa tggaacattc 300
tgaggggagg ccttgtggga aacgtcta atcagtgcaa tagttgtaaa tcatgtaatt 360

cttttgcacc caatggatct tggccagccc cgtggcgtcc agtgattggc cagtggagga 420
agaagttagg gcattgaagt ttctgtatga ggctgtgaat gggg 464

<210> 4098
<211> 580
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061f11a1

<400> 4098

tataaataaa acggtttctc tctttgagac tactatcagg gtcctcggag gattactttc 60
agctcatctt attgccactg attatgctac gggcatgaga gttccgttgt atgataatca 120
gttactaaac ttagctgaag atcttgccag gaggttgta cctgcatttg ataccctac 180
aggaattcca tttggatctg taaacttggt acatggagtt gataaacatg aaagcaagat 240
aacttcaaca gctggtggtg ggaccttgac tcttgaattt ggagttctaa gccgattgac 300
aaatgatcct atttttgaac aagttaccaa gaatgcagtg cgtggacttt gggcacggcg 360
ttcaaagctt aacctggtcg gtgctcatat taatgttttt acaggtgaat ggacacaaaa 420
ggatgctggg ataggaacta gtattgactc tttttatgag tatctattgg aggcttattt 480
attatttggg gatgatgagt acttggatat attccaagaa agctatgctg ctgccatgca 540
ttatccttac catgaccctt ggtatgtgga agtgaatatg 580

<210> 4099
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220061f11d1

<400> 4099

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tgattaaacc tctcacaata ggtttacaag agccttagga aaaatgatac aacaaaaata 120
attacattac attcttatac atgtgccga tgattaggag gcaggatatt agtgggtcag 180
ttcatccata atttaactct ttcagctcca tgctctctgt atcaacagtt gccgaaatta 240

tcaaatgcat acttttctcaa ttagacagac taacaaaact tgaatttaaa tttcaggtgg 300
 gtgagcctgc ccgagtttta gaagtacaac cctttgaagt tgaagagtat attcttcccc 360
 accaatccta ttgcataact gagatcttat aattcctact tcaaggagta tcgcttgatt 420
 catttgtctg actatcatta tgattactgc tattgtcttc tggtagcaaa ttgtcagaac 480
 tctggtcacg gagaaccaat actgaatggc ttngcaagtg cacagcagta gttgattctt 540
 tctg 544

<210> 4100
 <211> 564
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220061f12a1

<400> 4100
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 ttgcgggcga ccttgagcaa caaaagatcc atgatgatga gcctgtagtt gaggatgatg 120
 atgaggatga cgaagatgac gacgatgagg atgacgacaa tggtgaaggt gatgcacctg 180
 gtaggtccaa gcagaccaga agcgaaaaga agagtcgcaa ggcaatgctc aaacttgga 240
 tgaaacctgt cacaggtgtc agtcgtgtga ctgttaagaa gagcaaaaat atcctgtttg 300
 ttatatcaaa accagatggt ttcaagagcc cgacttctga cacatacatt atattcggcg 360
 aagccaagat tgaagacttg agtcacagc tacaaactca agcagcagag caattcaagg 420
 ctctaatgt gagcaatgat ggatcgaagc ctgaaacctc tgctgctgct gctcaagacg 480
 acgaggatgt cgacgagact ggtgtagatc ccaaggatat agagctggtg atgactcaag 540
 cttgtgtgtt gagatcagag ctgt 564

<210> 4101
 <211> 323
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220061f12d1

<400> 4101
 attattactt tttttttttt tttttttatt gtttaattta acacattttt ttataaccat 60

gtgtttcttaa aatctagaaa gaaagccaaa ataagaaggt tatcaggggc tacaaaacac 120
 acttgtgaaa aaaggacaca cccaatttg tttctaagca aaacaaacac cccaaaaaaa 180
 gaacacagca aaaacccccg tttaaggccc cttagcaac ccagggggaa ggaaaattcc 240
 ttgtacaaaa aaaaaaacgc ccaaaacgaa gaatttaaaa attgcccaa atgcaccctg 300
 acccaaaacg aatccccaaa agg 323

<210> 4102
 <211> 239
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220061g01a1

<400> 4102

atagaggtac actgagcatc gtctagctat ctcgatcgaa ctgtccaagg tcctgtcacc 60
 gaagcttcca taggcaggaa ggtgctatga cagtatacga attagcctta aaagtctatg 120
 gccaaactatt tcacacctta tgtaattaca tgcataagga catttgtagt ctgtaaggta 180
 gacttattgg ttgatgacta ggtctggcct caaccaagtg gttagccgtc gacataagt 239

<210> 4103
 <211> 249
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220061g01d1

<400> 4103

tccgattccg ttccaggaag gtttcccgtc atcactgtat gacgtcctcc ttctttgggg 60
 gggggggggg gcgagctaata gacaagtcag cagtggaggg tccccgaaca gtacgaaata 120
 agagaggaga tggaaagcaa ttgggtaaaa tagttagaac acctagaat ctaatctagg 180
 aggtggacag gaaaggagtg ataagacgct agtagggggg cacaccagc aaacgctacc 240
 gcataagtt 249

<210> 4104
 <211> 555
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220061g02a1

<400> 4104

ctgggagaaa tttgcaaggt actttgaggt ggagctgaaa gaggtgaagc tgcgtgatgg 60
atactatgta atggaccctg aaaaagcagt ggaaatggtg gatgagaaca ccatttgtgt 120
tgctgctatc cttggttcca ctctgaatgg agagtttgaa gatgtcaaac tcttaaatga 180
tctcctggtg gaaaagaata aggaaactgg atgggacact ccaattcatg tggatgctgc 240
cagtggggga ttcattgcac cttttcttta tccagagctt gaatgggact ttcggttgcc 300
actagtgaag agcatcaatg ttagtggaca caaatatggt ttagtctatg ctggaattgg 360
ttgggtcatt tggagaagca aggaagacct tctgaggaa ctcattttcc acattaacta 420
tctaggagct gatcaacca ccttcacct caacttctcc aaggttctag ccaagttatt 480
gctcagtact accaactaat tcgactgggt tatgagggat ataaaatggt gatggaaaac 540
tgcaatgaca acatg 555

<210> 4105

<211> 316

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g02d1

<400> 4105

caggccaaca caattccata caaccaacaa cattggaatt tcagcatatt taaagtcccc 60
tttgttattg gggaaggga ttactttcca cagatttta ttttaaaata ataatagaaa 120
ttgctctggt ctctggtctg cataagtggc tcaaaaaatg atccaaaaac aaggttttta 180
caaacaccat ttattttctt cctgtccatc acaaacttct tccaagcttt agggattacc 240
ctttgggatc ctatttcact ctttttggaa aacagaactt ttccggcatt tttttcacct 300
gcttttcctg taacca 316

<210> 4106

<211> 547

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g03a1

<400> 4106

ccggaatctg tctaaccacc ctaaagatcc ggcggcgagc cccaaaacca aacccttctt 60
aaaggagaat ccaaaattca attccaacac ataaaatttc aagtccgagg ttgcctataa 120
aaaccacttt ggacccccctt cgctcattgc agcctcaaga atccacacaa actcagggta 180
gggcagagag agagagagag agagagagag agagagagaa tgggaggggtg ggctatcgcg 240
gtgcatgggtg gcgctgggtg cgacccta atccccactcg agcgccaaga agaagcgaaa 300
caactttctca cgcgctgtct caatcttga atctctgctc taaattctaa tcttccccgcc 360
atagatgtcg tcgaacttgt ggtgagggaa ttggaaacgg atccgctgtt caattcgggc 420
cgaggatctg ccctgacaga aaaaggaacg gtggagatgg aggctagcat catggatggt 480
ccaaaaacga cgatgcggcg cccgtttcgg tcttaccacc gtaagaacc cgatctcgct 540
tgttcgt 547

<210> 4107

<211> 450

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061g03d1

<400> 4107

aattaatatt caaagaaact gattaataaa atgctactaa ttattaacaa tttgtacaca 60
ttaagatcct tgcaaataat ataagaattg aagaaaaaga gaaggaagtt aagtaagtga 120
tagtaaaaag gtacacgggt ttgttgagg tctaccacaa gtctttatatt aagagaaaga 180
caacaaagtt accatattat tatttcacat ttttttctaa ttcttagaaa caaggttacc 240
atTTTTtatt taaatcgggc accagcagaa agaccctaca ctacagtgga acatggtaca 300
gaaatccaaa agttgcatcg aaacaacat gaaggaaaat aatgaagcta ttcccagatt 360
ccgacctcca tgaagccatt ttcagtggca cagcccctaa acatgccatt gcaattgaaa 420
ccataagcca cttaccagc gttggacaca 450

<210> 4108

<211> 567

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g04a1

<400> 4108

gtgaaggcaa agatccaaga caaggagggt attcctccag accagcaaag gttgattttt 60
gcgggaaagc agcttgaaga tggacgtacg ctggcagact acaacattca aaaggagtct 120
acccttcacc ttgtccttcg tctgagggga ggtatgcaga tctttgtgaa gactttgaca 180
gggaaaacta tcaccttgga ggttgaaagt tcagacacaa ttgataatgt caaggcaaaa 240
atacaggaca aggaaggtat ccccccagac caacagaggt tgatctttgc tgggaagcaa 300
ctggaggatg gaaggactct tgctgactac aacattcaga aagagtctac tcttcacctt 360
gtcttgcgtc ttcgtggtgg gttttgagtt tgagaatggt ctgcagggtcc cttgtttggt 420
gtgaactgaa gtatgtgaaa gtctataatc tgggtcttttc tttttatatg ttcctgaact 480
ttgtgtatgt gtgcattccg ggtccattag cggaccttga aaagctatga tgtgtccatt 540
tgcaatctgt ttaatgaatt agtctttt 567

<210> 4109

<211> 475

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g04d1

<400> 4109

attgaaagta ctaaattcat taaaacatga ttgcaaattg tacacattca tagcttttca 60
agggccgcta atggacccgg gatgcacaca tacacaaagt tcaggaacat ataaaaagaa 120
aagaccagat tatagacttt cacatacttc agttcacacc aaacaaggga cctgcagacc 180
attctcaaac tcaaaaccca ccacgaagac gcaagacaag gtgaagagta gactctttct 240
gaatgttgta gtcagcaaga gtccttccat cctccagttg cttcccagca aagatcaacc 300
tctgttggtc tgggggggata ccttccttgt cctgtatttt tgccttgaca ttatcaattg 360
tgtctgaact ttcaacctcc aaggtgatag ttttccctgt caaagtcttc acaaagatct 420
gcatacctcc cctcagacga aggacaaggt gaaaggtaga ctccttttga aatgt 475

<210> 4110

<211> 601

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g05a1

<400> 4110

cgggcacatt aaaaaaggaa tggataagtt cctaaaaata aagaaaaacta taacacatta 60

taaggagggg tcaaataatta attaagataa aagatataga atatctatct gtatatatat 120

atatatagat atatattctt gaacctaaag agcgctgtat gcttcttaaa tttgtcacca 180

gttgttctcg tgccccatta cttgggttca aatacttgca gccacctttt accatccaca 240

aggatgttc ttgatctttt atgattgatg ggcattcaaa atcatttata ctaactcctc 300

tatgttccca ttttgctttg ttcttaaatg attaaagctt ggtttgtatt ttttgttact 360

caagcagagt acattaagga caacaataga gttaggaagc aaagcgtctt gaactcttct 420

gatcagttat ctaaaataac ttgtttccct agatgggatt tatgcacgaa tcagtttttc 480

attagatgtt agtgctttaa ttgcttgcta tgagttgaaa gggttgcatt agttacagcc 540

tttattttgt accagccttt gtttctagga tttctgcttt ctctcctcct tgcacatcat 600

g 601

<210> 4111

<211> 315

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g05d1

<400> 4111

aacagttctt tatgttggtg ggggggggaa aagccaaagc gggacacact gggcgcccca 60

cggccaatgg atacctccc ccccccccc gaaccaaccc caaaaacaaa ccgggggggcc 120

aaaaggggac caaaaacaaa ccccccccc ccgggggaag gggaaaaagg ggcacaaagg 180

cccccccccc ggggggggtc ccccccccc ctttttgccg aaccccaacc caaaaagggg 240

gggtgctttc cccccaaaaa caaaaaaagc cccccggag aatgccccac cggggcaaaa 300

ccccccccct ggggg 315

<210> 4112

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061g06a1

<400> 4112

acagaacttg gtcaatggtg cggatgcatg tgttcaaatt tggacctgtc tctgataaca 60
taacggctcg tactccacct ttgaagtgga acaatgttgg gggcatatac cctaattact 120
atgtgcaatg cctctagttc tggacgaccc acaacgctgc cctgacccta aaggatcatag 180
cgctattagc acagcgcgag cacttgggct catattctgg cacataacaa ttcctatgca 240
ctcaagaaaa ccgttgatgt ttctcgatcg taggatacta caacgaatca tccctaccta 300
gcatcagggtg cgcattgtggg tgtgatgtca ctgggtagtg ctgggtctagg gcttctccgt 360
agtctcttac agcacatttt cgtcttgagt cgattgctga caggaacggt catgcacgtg 420
catgggccag gatctagcac ttgcacggtt cgtgcat 457

<210> 4113

<211> 375

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061g06d1

<400> 4113

agaaaatgaa cctattaatt aatcatatgg ttgaactagg cttgagaaac gattatacat 60
gacctaacat ttcatacact atagtaacgt tgatcagaca tggctgtcta atagtgatac 120
gatctagtca cgtactgaac tgattataag ttcgacacac aatgttgtat cgatcagata 180
tacactgtta tgcactttta cacacatagg ctgcatccct aatgacatgc atatgtatct 240
gtctgtctcaa ttgggctaag caccctgttg ttgacgagac tgatatatat aaataacgca 300
gacgcgaaga gaagaaaagt ttaccctttc aagccagtaa ctctatgtct tgagtcaagg 360
gaggctaatac attta 375

<210> 4114

<211> 293

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061g07a1

<400> 4114

gcaacatgtc aatgagtgag cggaagacta ttgacctaga acagggatgg gatttcatgc 60

tgaagggcat caccaagctc aagaacattc tcgaaggctt gcccgagcct caattcagct 120

ccgaggacta catgatgctt tacacgacca tctacaacat gtgcactcaa aagcctcctc 180

atgactattc ccaacaactt tacgacaagt ataaggagtc ttttgaagag tacatcgat 240

caacggtatt accttctttg agagagaaac acgatgaatt tatgttgaga gaa 293

<210> 4115

<211> 373

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g07d1

<400> 4115

atagaaatgt cgttgggaaa tattatcgta ggcaaattaa tgtcgagcca tagcagttgg 60

gtttagattt aaaaggcata cccaatcacc tgatgatttc taagctgata atcaaaatac 120

aatttccttg aagcgcttac acaatttttg ggggagggag ggaagggaaat catataacca 180

acgggcattg tgagaaggaa ttgcagcaat cagaacccaa aaagatggtg aaagtatcag 240

tgagcaggat tatggaattt tgattacaat ttcccaacat gatcacacat ttacctggag 300

gcaaaattta caagcactga cagctcctcc ctcaaggatt ttttaaggaa aactcctctc 360

tttttttttc aaa 373

<210> 4116

<211> 125

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220061g08a1

<400> 4116

caagcaggtt aagggtcat ctgcagactc cttaccacgc gcaggtcact cagttatggc 60

tatggggatt tctaataccc tcaagcagcc gcgagggcat ggcctgtcgc tgatatttac 120

actcc 125

<210> 4117

<211> 490
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061g08d1

<400> 4117

aatccaaacc gcaaatgcat atgtaataga tacaacatgt tatgctaate catactacag 60
gcattcagat acgaattaaa gtgaaaccgg aagtcccaag aacataaact tccttagaac 120
tctgactaaa acaaaacatc taagacacct gtaaataaac tggggggaag cgtacggaat 180
gggaataact ggaaagcaga ttccagtcac aagactagag gaatctaaga cccaagattg 240
tcattgagag agagtgaagc tagatgatca gctggggttag actgctgctg agcaacattt 300
cttaacacat tcatggcttc agcaacttta gccttcagag catctggtga ctcaatcaga 360
tgtaaaactt caggctggtc catctccaga agcatgccag aaacctttgc tgcagcatgg 420
agttccagct gatccacaag cgggtataaa gctctaccga gcatagtact ctgctgttca 480
gggggagcat 490

<210> 4118
<211> 583
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061g09a1

<400> 4118

ggaagatgac tagtttggtt ttgttggtcc tggtatttct ccttctccaa cgtcctctct 60
catccttctc agccaactcc gaagggtgtgt tttttaatgt tccacttatt gattattttg 120
cttggtgtcc tgtcctagct aatttctttc ttgttttgta ggaaacgctc ttcattgcttt 180
gagaagcagg ctttctgacc ccagcaacgt gcttcagagc tgggacccaa atctcggtta 240
tgcttgactc tggtttcatg ttacctgcca ctccaacaat cactcattc gcttagactt 300
gggcaattct aagctctccg gaactttggg accagaactt gccagctac cccaccttca 360
atacctgttt gtatctgtct ctttgttgc tccaaccca acaatccatc atggtctcac 420
ttattctttg ttgagagtgc atggagctct acaggaataa cataagtggc aacattcctc 480
gggaactttc taaattgaag aaccttatta gtatggattt gtatgacaaa ccatttcatt 540

gcataatccc caagtttttt gcacttgact cactttaatt cta

583

<210> 4119

<211> 391

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220061g09d1

<400> 4119

ccaacccaaa agtggggaat tacccaaaat tttttgggac cccccaaagt tttggaaatt 60
tggggccctt ttaaaaaaaaa ttccccgggg gaaaaaaggg ccctaaaaaa aaaaaaggaa 120
gggttctttt tttggccaaa ctaaaaaacc taaaaagggg ttcccttggg cccaagtaaa 180
cagggggggg tgggaaaaaa acttttaggg cctgggccta aattcgggga acccaaaccg 240
gcgggggttt aaacccaaac gggaacgggg ggttttttta aactgggcat ttccccaaaa 300
aaaacctggg ttttgcggtt tgcaccccg gggagacaaa aaaacccttt tttatttaaa 360
aatttgggcc ccccaaattg gggccccccc t 391

<210> 4120

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220061g10a1

<400> 4120

accaaggaga gaacaagcac agcctcttag aaaagcttca ccgatctgac agcagctcta 60
gctcttcaag tgaggaggaa ggagaagatg gagagaaaag gaagaagaag aagaaggaaa 120
agaaagggct gaaagagaag atcgaggaga aaatagaggg tgatcatcat catcacaagg 180
atgaggacac aagtgtccct gttgagaaa ttggagtgtg tggaacagca catgctgagg 240
aaaagaaagg gttcctcgac aagattaaag agaagctacc aaggcacaag aagacagaag 300
aggccacagc tactacttct nctccaccac cacctgttgc atcattggag catggtgaag 360
gtgctcatta tgaaagagag gcccaaggag ag 392

<210> 4121

<211> 495

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061g10d1

 <400> 4121

 aaaacacaaa taaaacacac tattattcca ttttcagtac atatttaatt tctttttact 60
 tcaaagaagg aaacctacac aaactttttt ttttgtaa at ggaagagata aatacacaat 120
 aataaagtaa attaagtatg catcaagaaa caccaaagaa acccacaagg ctgtcatatg 180
 atgaaatgaa aacaaagcac accacaatca tgcattctcca accaacaaaa aagccttgtc 240
 tcaatcttaa atatcaatga gcaccactct ccttttccctt ttccttttcc tectctgtct 300
 tggagtgata accaggaagc ttctctttta tcttttctaa tatacctttc ttctccttgg 360
 cctctccttc atgatgagca ccttcaccat gctccaatga tgcaacaggt ggtgggtggaa 420
 gaagagtagt agctgtggcc tactctgtct tcttgtgccc tggtagcttc tacttaatct 480
 tgtcgaggaa cccct 495

<210> 4122
 <211> 563
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220061g11a1

 <400> 4122

 ggcgcaagtg aggaacaagc aagtgttct aaaggactat gttaccggtt ttcccaaaga 60
 atccgacatg aatattgtcg aaagtaccat aacattgaag cttccacaag gttccaatga 120
 tgtcttgctc aaaaatttgt acttgtcttg tgatccgtat atgaggaatc tcatgaacaa 180
 gcccgaggc cctcccaata gtcgtgctta cactcctggc tctccattaa taggatatgg 240
 tgtgtctaaa gtcctggaat ctgggcaccc agattataag gaaggtgatt tagtgtgggg 300
 ctttaccaa tggaagagt atagcttggt accctcagct caaatactct tcaaaattga 360
 gcacactgat gttccactta cctactacac tggaattctt ggtatgccag gagtgactgc 420
 atatgcaggt ctatttgaag taggatctct tcagaaagga gaaaatgttt ttgtttcggc 480
 tgccttttgc gcagttgggc aacttggtgg gcaatttgc aaactgaatg gatgttatgt 540
 agttggaagt gctggatcta aag 563

<210> 4123
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061g11d1

<400> 4123

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ctcaggacta tcaagaacaa agagcatcat catacagttg acgaagggtga ctgcaaagggt 120
gatgtcaaga cagccaattt ttcagcaaaa aaaccagaaa taaaactgat aacttcccat 180
tgaacacaag aaacaaatgc tttttactca tgagaaacaa cgagcacttg ttttccaaca 240
ttgcgaccgc taaaaaggcc aaccaatgct gaagggtccat tctcaagccc ctcagctatg 300
tcttccacat acacaacctt cccctctctg atatttggca ggagaaactc caagaacttg 360
ggatataggt gaacgaaatc catgaagtta aagccttgca aacgaatccg cttatatatg 420
atctgtgcca aatttggtac accttcatgt tgagtaagat tatactgtga gatcattcca 480
cagacgggta tgcgaccacg gactctcatg ttc 513

<210> 4124
<211> 531
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061g12a1

<400> 4124

cggaattagg agtgaggaag agaggggttct ctgagactga aactgatgaa acagccaccg 60
ttgatttgat gcttaacctc tcacccaagg aagctgctgc tgctgatggg gcagatccac 120
gtgagaagcc aaagacttcg ccgaaggaga agacccttct gcttcccgat cccgccaagc 180
ctcctgcaa ggcgcaagtg gtgggatggc caccctgtgag gtctttccgg aagaacatgt 240
tcgcagccca aaagagcagc ggcggagagg aaagcgaaaa gagcagccct aatgcaagct 300
ttgtcaaagt tagcatggat ggagcacctt accttcgcaa agttgacttg aagatgtaca 360
agagttaccc agagctctct gatgccttgg gcaaaatgtt tagctccttc accattggaa 420
attgtgaatc ccaaggcttc aaggatttca tgaatgagag caagttgatg gatcttttga 480

acagctccga ctatgtcccg acctatgaag acagggatgg cgactggatg c 531

<210> 4125
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061g12d1

<400> 4125

agcaaattaa taaacttatt attatgcaag cacacaagta aagaaataag aaagtcttgc 60
aacataattt agagtcatta tcgtttgtgt tcataattta tacttacgac atctcacaac 120
tttgtttgaa atatatatta tataacaaac cataatgata cacagattta cttaactata 180
ttttttaaca cctgctctc tcctctgtg tctgctgcag cttaaccttg cttcagttac 240
taagtcaact aggcaccgct aatgatgatg gagcagattt tggactggta actactagtc 300
tagctcctgt tcttgcatth ctccacggct cttggtgcca gtccaatagc ttcctttcct 360
ttcatgatac gtaaacgctt gcatgattca acaaacatct cccatggcac atcaccgaca 420
agcatccagt cgccatccct gtcttcatag gtcgggacat agtcggagct gttcaaaaga 480
tccatcaact tgctctcatt catgaa 506

<210> 4126
<211> 452
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061h01a1

<400> 4126

gatgagataa cactgagcat cgtctagcta tctcgatcga actgtccaag gtcctgtcac 60
tgtgaggtgg tgggtggtgt agatgggatc ggttgtaggg gggtttaact gtgttcgcac 120
cgtgtggtga tttgaaagtt caatttcaag gtccgggtaa gtgtacacac acacacacac 180
accacacac acaaatatgc attgagtgtc tacaagtcac aattatgggtg tatgtggtaa 240
gtctaatacga cgtgggcagc ccgttcacga ggtattatta catttaatat gtttgaaatt 300
agcctccccg tgcgccagcc taacatccca gagtgggatg gggccaagtt gcacatgaag 360
cgtattttacg agcacaccgt tagttgtacg tgtactgggt tacgtaacgg ggtggtacgc 420

tttactgtgg tgcgttaccg gtaataagta gt

452

<210> 4127
<211> 511
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061h01d1

<400> 4127

gctagcgata tccgttccaa ggaaggattt cccgatcatc agctgtatga cagtccatcc 60
tgtcgttttg ggggaggggt ggggggacag acgtagcaca gaacgggatg ggggggagcg 120
gcagagcccc aataaaccaa tgttcgtggt agagaaacag tcactgggga ttaaaaagaa 180
taaataaaag ttataagag gtgggatgga tgaccggtag tgagcgtag ggttacctgg 240
tgataaactt ttgtaaaaga gatagggttt agcaagggtta tgattagagt tgaatgcgtg 300
tcgcggtaaa gaataagttt tggttatagg agcgaacaac attaaaataa ttggccatag 360
agggagagcg aaagccgtgt accagacgtt aaaagttgaa ggcataggga tcccagtagt 420
ggcattaagt aggttggtgg ttgctccaag tagtttggtt gttatggtgt taggcgaaca 480
gcaagcacag ttactagagt ggtagtatt t 511

<210> 4128
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061h02a1

<400> 4128

ctagcactca atattgctga gaaaggcttt cccatctctg ttataaacg aaccacttcc 60
aaggttgatg agactgtaga acgagcaaaa caagaaggaa atcttccagt ttatggctac 120
catgaccccg aagcttttgt tcattccatt caaaagccta gggtgataat aatgcttggt 180
aaggctgggg cacctgttga ccagaccatt aagaccctat ctgcatacat ggaaaaaggt 240
gactgcataa ttgatggtgg taacgaatgg tacgagaaca ccgaaagacg agagaaatcg 300
gtggctgaat tgggtctgct ctaccttggg atgggagttt ctggtggtga ggaaggtgct 360
cgtaatggtc cctctttgat gcctggtggt tcgtttgagg ctttcaaata catagaagat 420

attctttctca aggtggcagc tcaagtcctt gacagtgggc cttgcgtgac ttatattggt 480
aaaggtggct ctggtaattt tgtgaagatg atccacattg gcatcgaata tt 532

<210> 4129
<211> 517
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061h02d1

<400> 4129

aataaacaaa gatatttatg gagataacct aatactgata tttatactaa tacttaggtc 60
gagcactagt actagtagta caagcccaag cccaccaata acaagaccaa aacctaata 120
actcaagaaa gatattctta atattctcca acaatatcaa acttattcac tgttgacagt 180
agatcaacat taaactcaac aagttaacaa taaatgtaaa aatttcaact cctgggtgtaa 240
cataacatgt atccatgacg ctgaaggaaa tcttatcaaa atgtgaaaat taaaaaggca 300
ccatgagctg ggacaatttt gtatcaagca caaagcatga tcagcaaaga tacaacatag 360
ttggaaaaca aactatcaag caattcagtt ggaaataata taaataaaac ttcaccacgt 420
tgtggctatg taaactcaac tcagcataca gtctgagcag aaaacattac atttattagg 480
aaaatcctga ttgttcaa atacagta atcttct 517

<210> 4130
<211> 466
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061h03a1

<400> 4130

gtcatcacia ggatgaagga ctgggaagat gattctacac accacaacat ggatgtagct 60
ggcaatctgc ttgaaacata tggacgttct ctgtatcagt atacaaaaac tactgtacgt 120
atggttaaca tgggtgcagat actgatgcga gggaaacatg tctaagactt gactccgaga 180
cataacacta tgatggagaa tgcatactac ctttacacgc caccagatgg atctgcacga 240
gtacctgaag gtgatgcttc attgcatcac catcatagga agatacttgc ctctgatctt 300
gaggaggata ccatggctca tgctctgtag caccttcaga aggaacctag taatgaacgt 360

gaaccatatac ttttgaaatg cttcatgaat ggctacagag gaaaatgtgc gtagatccac 420
ctgactgatac tctggctgct ggataagtcg ctatcatgat gaggat 466

<210> 4131
<211> 372
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061h03d1

<400> 4131

attgaaagtt ctatatttat taaaacatga ttgcaaattg tacacattca taaattttta 60
aggaccttta ctgggcccga catgcgaca tacacaaagt ttatgaacat ataaacagaa 120
aggacaaaaa tataggctct tacatacttc agttcacacc aaacaaggga cctgcagacc 180
attgtcaaac tcaaaaccta ccacgaagac gcacgacatg ggcagagagt tactctggct 240
gaatgatgta gtcacaaaga gtccttacat tcttcaggcg ctttccagca tagatcaatc 300
ttttgcgagc tggggggata ccttgccttg cctgaacaaa tgcttgaca ttatcaacag 360
tgtctgaact tt 372

<210> 4132
<211> 589
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220061h04a1

<400> 4132

agagtctctc accattcaag gaagtatgat gacagggaac acgaccaaca gtatggaaga 60
aatcactatg gcagaagcag tgactctctt agacattctg atagacagtc attcaaaagt 120
tcctttggc actctcggtg tgacaagtat gcaaatgaag atagatatcg ggagaggctg 180
ttgtctcgtt ctggacatga gtcaaggat gatcatgtga gagaagagag tgatagcagg 240
ccaaaaaact accagtgcag tgtggacaag tattcacatg acaaatatga caggctctgat 300
catagaagca aagaaaaacg tagagatata tactcggagc atcagaaata taaagatatg 360
gattcttcat atgaaaaatc tgcatttagc aagaggcatg cactgtatga tgaagtggag 420

agggaggggc attcaagga ctgggatggt caaaatgaaa gaagagattt ccgccgaagt 480
tcaggggact acagaagtga ccaaagagat gagtcaggtc cacaaagaga cagtggntaa 540
tntagtttaa aagaagctta ttagagtga cagaatgagt caaatgatc 589

<210> 4133
<211> 541
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220061h04d1

<400> 4133

agatacaatc acgataagaa attccataga aataacacgc cctgtcaaaa tcaggaactc 60
caaacagatg ccaagtgggtg atgtccctaa cataagattc ataaactccc aagcatgtcc 120
acagcaaaca agcaaaaagc tcctccctaa acatgggggtg ataattaaca cataaatgtc 180
aaaggatgta aattttccgg agaatgggta aagccctaag ccaactgtac ggccatctct 240
tcgtcgaagg cctgcagtgt attgtttctc tagatccatc tgaagttcct tctgcttctc 300
agcacggaga atttcgttac tgctttgggt gttggaattc tgctccacct ttgcttcgcc 360
tctcataccc atgagtttgc tgaatttctc ttgcctctca cgatcagaaa acatcccgggt 420
atcccatcga tggccagact cttcagtagg tatactctnt ntgccacccc acaacagttt 480
cttctttgggt cagtagtcaa gcattcaggc ccaactaagt tcctattacc caatcagcag 540
c 541

<210> 4134
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061h05a1

<400> 4134

ggcactctcg gtggctataa tctttctgtg gtgagttgtc aagatgtaca catcaaggaa 60
gaaaatccac aaggataagg atgctgagcc aactgaattt gaggaatcag tcggacaggc 120
attgtttgat ctggaaaata ccaacaatga gctgaaaagt gatctgaaag atttatacat 180
aaactcagct gtccaaattg atgtttctgg gaaccgcaag gctgtgggta tccatgtccc 240

ctacagatta aggaaaggat tccggaagat tcatgtcagg cttgtgagag aacttgagaa 300
aaagtttagt ggaaaggatg taatcctgat tgccaccggg aggatattga ggccacaaaa 360
gaaaggttct gctgttcagc gtccccgcac ccgaacactc actgctgtac acgaggcaat 420
gctggaagat attgtattgc ctgctgagat tgttggaag cgtgttaggt ataaaattga 480
tggttccaag attatgaacg tctttttgga cccaaggagc gaaacacacc gagtcaaatt 540
ga 542

<210> 4135
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061h05d1

<400> 4135

ccaaaacaaa acactgacat aaatagtaga aatacgggca tcatttgta taagaaaata 60
tatcaaattc tacattgata aaccaggaga cagtattttc tataagtacc acccctaaag 120
aaaatccaga attaaagcca acttaacaaa accagcatcc accatatata attcagaaac 180
aaatgcaaag ctaacaaata gaacctaagc ctcgggtgga ggataactcaa acacaatatc 240
tttgccgaa agtttctgt atactgcagc aaaagtctcc aatttgact cgggtgtgtt 300
tcgtccttg ggggtcaaaa agaccttcat aatcttgga ccatcaattt tatacctaac 360
acgtttcca acaatctcag caggcaatac aatatcttcc agcattgcct cgtgtacagc 420
agtgagtgtt cgggtgcggg gacgctgaac agcagaacct ttctttggtg gcctcaatat 480
ccctccggtg ggcattcagg atacattcct ttcactaaac tt 522

<210> 4136
<211> 352
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061h06a1

<400> 4136

ggcctaaaag gcctcgtct aatgcagttc cttcatcccc agattcttct gttcttactc 60
gagaagcatc atctaaagtg agcatagacc cttcaccggc aaatggcttt ccaagggtct 120

tgcaagggtca agaattctcg accttgagag gcaattttgc tgaaagtaat gagtctgata 180
 ctgctgagaa gtctgttggt tggccacctg ctgcagtaga tgatgaaaag atggatgttt 240
 ctacttcaag gaggtatggt tcagagagct ggatgtcaat ggggaggaat gagcctacat 300
 attcggatct tccttcaagc ttttggggcc atggggatcc ttctcattat cc 352

<210> 4137
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220061h06d1

<400> 4137

acacttaaaa caaaatttaa ttatacagca tgcagaatgg aatctcgata atttccatct 60
 cacaaattat gactaataag aatcaaaatt aaaatcaaata aaactggata ccaaccacaa 120
 ggcctccctg gtatactatc aattttcatt acattaacgg tttgttggtc agagggtaga 180
 tgagaaacaa ctatgtacag ctacaagggtg ggattgtttg gaaaagaaaa gcaagggtga 240
 tatcacccta tatcacctca ctcaaaaaca caattgatta catactaggg attgtatata 300
 gctgagcatt atactactaa ttccgggatt tccaaaattg aacggatact ctttcgtgcc 360
 atcttatata ttgattcgaa gcagtcactg ataagcagca gtcagcctcg atttcgtctt 420
 caagttagtt ttccaactgg atggcttcat ggcagttccc tactt 465

<210> 4138
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220061h07a1

<400> 4138

ggtagtggct gtagaggaaa cactcctggt ttgtgcgcatt attgatattg gaatagtctt 60
 tctctgaacc ccatttttgc aaaaaggaag aaagagaaag agagagagag agagagagaa 120
 gagatataca ctgccaagaa gaagaacatg aaaattcagt gcgatgtgtg tgagaaagcc 180
 ccggcaaccg tgatttgctg cgcagatgag gcagctttgt gtgccaaatg tgacgttgaa 240
 gttcatgctg caaacaagct tgcaagcaag caccagaggc ttctccttca atctttatct 300

aacaagcttc ccagatgtga catatgtcaa gataagccag ctttcatatt ttgtgttgag 360
gacagagcac tcttctgtaa agactgtgat gaacctattc atttagccag tagcctttct 420
gcaaaccacc agcgcttact tgctactggg atccgggtgg ctttgggttc taattgcacc 480
aaaggcaatg aaaaagggtca cgtggaacca tctaaaccaa aagcacaaga agttcctgcg 540
aaaattc 547

<210> 4139
<211> 406
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061h07d1

<400> 4139
gatcttcaac acaagcatac ataattaacc attcaagttc acgtggattg ttgtgtggtg 60
tgagcaccta taggatgtaa acagtgatga tcacaaagag caaggaaaat ttaatcccct 120
aaggtttaat ttatgctata ttctaaaaat caaaccattc atagtccta aaatgagata 180
tttatcaact ccacaagcta gttaacatac ttcattactt actgtcctaa gagaagtatg 240
catatacagc tcatcaatct acagattcat gcaatagtcc tcatggctct gagcttcagc 300
tagaccaggc acattgaaga gttcattaac atctgcacct agtatgcata tacaactcgt 360
caacctactg cctactgatt caggcaattg ttacatgac catgtg 406

<210> 4140
<211> 575
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061h08a1

<400> 4140
ctagatcaca gagagggttaa gtccttcata agcagcatcc cttgtgtttc aagcaagctt 60
agaaaatcaa atgaggaagc ttattcacca aagtttgtca gcattggacc cttatacaga 120
ggaacaagta gccaccttct ggccatggaa gagcacaaat ggcgttacat gctggctctc 180
cttcatagaa ctcaaaatcc agtttcaacc ttggatgaat gtggcactgt cattctaggc 240
ttggacgatg cagttcgtgc aagctatgga ggtaacatca aatatgaagc tcatgagcta 300

gccaaaataa tgttacttga tggctccttc ttgctagaac ttcttcttag atgcgcacca 360
 ccaaacatgg ttcttcaaat tccaaaagaa gataaccata ataatgggtc ttcttcagat 420
 ccaatactag gacacaaaga ggtgttttta tctattctca ccgatttcac tctactagag 480
 aaccaaatgc ccttttttgt tctcaagaca ttggctagga tgctttttcc caatgtcttc 540
 acaagtgaag ctgatcacct tgggtctgat ctcac 575

<210> 4141
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220061h08d1

<400> 4141
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 aatattttctg gtctatcatg aatcatggat ttcattggta cagttacact tacaaaattt 120
 acttagccac gggctgaata gtaggtttgc ataatggtaa gagcaagcag agcagcagct 180
 accacaatcc ctatcaattt ccacacattt gggatatgat ctctaataaa gattttatag 240
 ctgtgtttgc aagagtatct gatgcattct acacaaaggt tgcaacaatg caacatcagt 300
 ataggggaact tcttcaaggg gttcactgct gagtaagcat tcaagtcctc acaaagtttg 360
 ctgtaactat tgtccatttg gtccactccc tttgtgattg tgccaaacaa agtgagcaaa 420
 tctctgttgc tgatcttagt acctttcacc aaaacaccat tttccacaag cagctcaata 480
 tcttgcacag aacacatcat gcctctaaga aacaaagcat tagaagtga ttgccctgtg 540
 atgccaattc tacttngctt cccatgcatg aag 573

<210> 4142
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061h09a1

<400> 4142
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gagcctactg cagctgccat tgcataatggt cttgataaga aggccacgag tgttggtgag 120
aagaatgtgt tgatttttga ccttggtggt gggacatttg atgtgtcttt actcaccatt 180
gaggagggtg tctttgaggt gaaagccact gctggttgac accccatctt ggaaggtgaa 240
agatttttga taccaggatg gtgaaccact ttgttcaaga gttcaagaga aagaacaaga 300
aggacattag tggatacccc agagcactta gaaggttgag gactgcttgt gagagggcc 360
agagaacact ttcacgact gtcagacca ccattgaaat tgattctcta tacgaggaa 420
ttgatttcta ctgcactgat actcgtgcca gatttgagga gcttaacatg gatctcttca 480
ggaaatgtat ggagcccggtg gagaaatgtt tgatggatgc taagatggac acaagacgtg 540
ttgatgatgt tgtccttgt 559

<210> 4143
<211> 451
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061h09d1
<400> 4143

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taaaaaagca taaagtaaaa taagttttta aaacaggtat ctggaggaaa gcaactacat 120
ttagtccact tctcaatct tggggccagc accacttcca ccagaaggag gagcagcata 180
ctcatcctct gctgcaccag caccaccac gtctggacca gcaccacctt ggtacatctt 240
ggcaatgatt ggattgcaga tgctttccaa ttccttcatt ttgtcctcaa actcatctgc 300
ttctgcaagc tggttgctgt ctaaccactg gattgcttgc tcaattgcat cctcaatctt 360
cttcttgtca gccgggtcaa gtttctcacc aatcttgtca tccttcacgg tgttctcat 420
gttgatgca taagttttcc aaagcgtttt t 451

<210> 4144
<211> 513
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220061h10a1
<400> 4144

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 gatattctgat gcgcttgaaa ggatcatagc tggacctgag aagaaaaatg ctgttgcttc 120
 agatgagaag aagaaattag tagcctatca tgaggctggc catgctctag tgggtgcttt 180
 aatgccagaa tatgaccctg tagccaagat atcaattatt cctcgtggcc aagctggtgg 240
 tctcacattt tttgctccca gcgaagagag gctcgagtct ggattgtaca gtagaagtta 300
 ccttgaaaat cagatggctg ttgccctggg tgggaagggtt gccgaagagg ttatttttgg 360
 ccaggaaaat gtcaccaccg gagcatcaaa cgacttcacg caagtttcac gagtggcaag 420
 gcagatgggt gagagatttg gattcagcaa aaaaattgga caagttgcca ttggtggacc 480
 tgggtggaat ccattcttgg tcaacagatg tca 513

<210> 4145
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061h10d1
 <400> 4145

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 agtcagagcg tattttatag tacaacata attctgtgac ttgcgtgtat gattatgcaa 120
 catataattc ggcttttcca tcaatgaata gactcatgaa ctcttcacca tccacagttt 180
 ctttttctat gagaagttga gcaagcttgt gaaggatatt aatgtgagtt gagataatat 240
 gtgttgccct agaatatgct ctctctacca gttccctcac ttctgcattc actacatccg 300
 cagttgccat ggagtaatcc ttttgcgatg acatctgttg acccaagaat ggatttcac 360
 caggtcacc aatggcaact tgtccaattt tttt 394

<210> 4146
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220061h11a1
 <400> 4146

tgcacatag agtatggcca gccacgatct tcgattcttc gatttgaaca caggcgctaa 60

gataccttcc gttggtttgg gaacgtggct cgctgaacct ggcgttggtg ctgcgcctt 120
ggccactgca ataaacgttg gatatcggca tatagattgt gcgcaaattt atggcaatga 180
aaaggagatt ggtgctgcct tgaagaagtt atttgctgat ggtgtagtta agcgtgaaga 240
tatgtttatc acctccaagc tatggtgtaa tgatcacttg ccggaatg tcccagaggc 300
atgtgataaa actttacaag atttgcaact ggactatttg gatctctacc ttatccattg 360
gccagtcagt gcgaaaaacg ggaagcttac caaacctgac atacctagca catggagagc 420
aatggaagca ctctacaatt ctggcaaggc tcaagctata ggggtcagca atttctctgt 480
aaagaagctt caggatttga tggatgt 507

<210> 4147
<211> 545
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220061h11d1
<400> 4147

aataactaac attttccgat ctaaagcata ttagacttct aacaatagtt ttgtcaaaca 60
cacaataagg tcaagactca aacaactgaa ttccaaaatg acacgttatt aatgtaaact 120
cgaaatctcc cttgacacat ctcaagtcca aaattataaa cacatcgtag attattacaa 180
taatcataaa gataggctca tttttgcatt aagcaagagg gggggatgtg gccaatatgg 240
aaactgtcca ttactcatcc cagagttctt caattgtttt gtacccggga gatgtcttgc 300
taaaaaaacc atctccagta actattctct cctgcttaat gtcagagaag ttggcaagca 360
aatctgcagg tatggaccaa tcaaagagat caaagttttc cttgagcctt gcatcatttg 420
tgctcttggg aagcacactg tggcccattt gtagtcccca tctaagagct atttgtgctg 480
cagtcttccc taacttctct gcagttgtgt gcagaaatgg atttttaaga atattacttt 540
cactg 545

<210> 4148
<211> 521
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220061h12a1

<400> 4148

acttttgttc gtactgtcca gcatttacca taatgctata attttaagaa ttttgataat 60

tctaattcta tgatggtagt atatgattac tgtcttgtcg ggtccgatag gaacttttagc 120

caatcagttt tttgaatcca ggaagctttc acaaccaacc ttttccgatc tttctctcaa 180

accggctcgc atttccagaa aaaccctgag cttgaagatg gccaagttg ctcaaaaccc 240

ttctcagcag cagaaagtca taataactaa caagtatggc aataaactag tgggcatttt 300

gcatgaatct ggaaccaaag agattgttat cctatgccat ggtcttcgat cactaagga 360

agacgatatc ataaaaaatc ttgctgctgc tctagaaaat gcaggagtca gttcttttcg 420

ctttgacttc actggaaatg gggaaagtga aggttcattt gagtttggtc actattggag 480

ggaggttgat gatcttgcac gatgtggttc aacactttca t 521

<210> 4149

<211> 520

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220061h12d1

<400> 4149

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taaacagtct ttaccataag gtttccttac acttattcta taatactgag gtgtccccag 120

acccttaaaa tgtgggaata accccccact atggctacca tatgctacca tgagataact 180

gtttacatat tgcatttgtc ataattgata atttaaaaat gacattgtat actcccagat 240

atttctctcg ccattatttt catcatgatg caagattcac caattttata agcaaaaact 300

agaagagctc aaacatgctg cagaacatca taggcatgtt catccacaac tgaaattttg 360

tcacctgttg caatttcaat tggctcgtaa ctgcaaggtc taccacaatt acacatcatt 420

agaaaaatgg accaaggctt cctttatgcg gttcacaaca acagaggcta attcatcttg 480

atgatagtgt atgaatgac agctnctct atgataatta 520

<210> 4150

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220062a01a1

<400> 4150

tgacctgcac tgagcatcgt ctagctatct cgatcgaagc tgtccaaggt cgctgtcagc 60
tttgtaggca ggggacggga cctaacgcat gaaagagggg cggggtgaag gggccgggat 120
gggggaatag cgccgcgacc ccatggtggt accgcgagcc gccaaagtga ccagccacgt 180
gggaggcaac accgttgagg ataacgtggt gatgccaccg tttgatggac taaataataa 240
ccggtggtac aagagaacca cccaaagcca atggattaaa gacggggccga agtggccaat 300
gccataccca tggcaaagcc ggctgcttgg gcaaaaacgt ggttcgtaac aaaagggttag 360
gaaaaagcgc tgtttacaac tgtttccga cgtgatgctg cgagacgtag tgagcgataa 420
cgtgcacaaa caatggccgg ccaactaaaa gatccgagac accaaagcgg tatccagga 480
gccaaaggcca taagtaaaaa g 501

<210> 4151

<211> 494

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220062a02a1

<400> 4151

gatatttccc ttttgagggt tgattagtgt ggcctagtta atttgttttc tcgatgagaa 60
tgagaaagca atccactatg caatgcgcac ttttcgctt ctgggttccc ttgttactac 120
ttgccagctt cagttatgct ctttctgttt tggccacaac tgaaatttca gggaatcaag 180
tgaacatgga tgggaagggt gtaaataag agttaggaaa acctaataa aaaggacaag 240
atgaagaaga aaaattcaaa ggactttttc caaaaccaat tccaattggt aaaccttttc. 300
caaagctcat tcctataatt aaacctattc caaagccaat tccggttggt aaaccaattc 360
ctattccact ttataagcct tttccaaaat caattcctat tgtaagcct attccaaagc 420
caatcccaaa tggttaagcca attccaactg aagaagcaaa attcaaagggt ttttttccaa 480
aacctattcc cata 494

<210> 4152

<211> 500

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062a02d1

<400> 4152

acttataata taatcaatct tataaaaaact aatattgaaa tcttcattaa ggagaacaca 60
ttaactacat atattccaat ccagtacaca agaggggtac agaaggatta ttatctaaat 120
catgattgag gttgaggtgt gggaaaacta catataataa ggtattagaa atggaaggaa 180
tgactttatt gctttagac ctagagtgtt atcattttat ggagttggaa ttgccttgtg 240
aattggaaat ggtggtagaa gtggtttctt aaatttggga ttaagaggaa attttggag 300
aggctttttg aagaaaggct ttggttttaa aaatttctct ggctcaacag cagggatggg 360
tttttgcact ataaatggtt ttgatatagg cttaacaatg gaaattggct ttggaattgg 420
ctctaaaatg ggaattggct ttggtatagg cttaacagtg ggaaatgatt ctgaataggc 480
ttatatactg tgatagggat 500

<210> 4153
<211> 499
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062a03a1

<400> 4153

ggacttcaag aactatgagc tcaaggaggg gctgcttcgt gctgtcgctg gcaccggcat 60
gtgggagtgt gtggacttct tccctgtgtc caaggagaat gagaatggat tggatacttc 120
tattaatggg gctgaggtga agcatgtgat gaaggtgagc ctggatgatg atagacatga 180
ttactattca attgggactt atgatgagaa gaatgttctg ttcacaccag atgatgctaa 240
gaatgatgtt ggcgttggat tgaggtatga ctatgggata ttctatgcat ccaagacgtt 300
ttatgatcag aataaggaga ggagagtttt gtgggggttg attggggagt ctgacagtga 360
atatgctgat gtggccaaag gttgggcttc agttcagagt attcctagaa ctgtggagct 420
tgataggaag actggcagcc acttacttca gtggcctgtt gctgagatcg agagtttgag 480
attgagaagt gatgaaatt 499

<210> 4154
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062a03d1

<400> 4154

ccatatgtaa atatttttag catagaattg gataacatta acatcatatt tctttgaaca 60
gattctcttg taagcatcat ttcacatgat atgataaaat tacaacaaaa attctgataa 120
acataactgg gcaaaaatga aggaatgcg c tttgagcaag aaccataacc ttatgtcggg 180
tattcagggg aggacattac aactgataag taaaaattgc caaccaaga tgtattccaa 240
tcctttgtga ctatagctct tctatctcca attcaaattt ttaactcttc tgatcagggg 300
ggaatggg c g tataaatgca gaattcattt gccaaacttt tagtgagggt gtcacagtgg 360
cctcggtagc attgttgaac aagaacaacc tagcagctcc atagattgcc tttgttggat 420
aaacccgaga tgtcacaacc gtccttcac c ttgagcaaa gctttcaaca atagaatggg 480
ccaccagtat tccgcaggaa aacttt 506

<210> 4155
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062a04a1

<400> 4155

agataatgga gtcgtgtccg agaactgata tagagaacct tgaagacttg ctcgaggagg 60
agaatctcta tttgaatata gaggaaggag agcaaggacg gttgcctttg ttgattttga 120
agttgaagga aagcgataag cagagaaaaa ggctgcagt tgtttttctt cacagtacga 180
acaaatacaa agaagtccta cgtccattgc ttaaggcgta tgcttcgcga ggatatatag 240
caatttctga tgattctcgt taccatggag aacgtgctac cagcgcaacc acctatcgcg 300
atgcacttat ttctgcatgg aaaactgggtg agacgatgcc attcatattt gacacggctc 360
gggacttgat tagattggca gattatctaa cacagagaga ggatatagac ctttctagga 420
taggaatcac tggaatatca cttggaggaa tgcattgcgt gtttgctgca gttgctgata 480
cttgctatg 489

<210> 4156
 <211> 84
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220062a04d1

 <400> 4156

acgacctttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttata atat 84

<210> 4157
 <211> 584
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220062a05a1

 <400> 4157

ttaccttct attgctgaaa atggtgaatc tcggcatccc agactagaca ttccagcacc 60
 tgattacatg caatccaatc acaaggatgg tggggtttct gtaagttcaa ctacatcaaa 120
 acttgccaat cccaatactc gattaccagg aacaagttca gcaaattcca gtgctttcttc 180
 agctgcactt ggtcaaaaga aattgtatgc agaatcccag acaggaaaagt ccacttttca 240
 aaagcttttg gagccaatgc ttcctcaact tcctggaatt gtccttata gaattgtcct 300
 ggggaatgtt aaggataagc ttgagaaaag tcgtagacgg ttagaaattc ttcttgagga 360
 tgttgcatgt gactatgata ctttggatta ctatgaaaca tctgatcagc ttttggaaacc 420
 tctgctctc tgttatgaat ctctgcaatc gtgtggatct ggggtgctag ctgatggctg 480
 acttgctgat ctgattcgta gagttgctac ctttggaatg ngtgtaatga agcttgactt 540
 gcgtcaggaa tcttggagac atgcagaagc acttgatgca ataa 584

<210> 4158
 <211> 606
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220062a06a1

<400> 4158

ctcggctact tggacttgag tgacaatgcc ttgagtgggtg aaatcccaag tgagctatgt 60
tacttgccca aactcgagga actccatctc aactccaacg acctcgtggg gtccattcca 120
gttgcaattg ggaacctcac gaagttgcag aagcttatcc tctacgacaa tcaactcggc 180
ggcaaaattc ccggcaccat cggaacctt aagagccttc aagtgataag agcaggtgga 240
aacaagaacc tggaaggcct ttaccacaa gaaattggca attgttcag tttgggtcatg 300
ttgggtcttg ctgaaactag cctttcaggt tctctacctn caactcttgg ccttttgaag 360
aaccttgaaa ccattgccat ttacacttcc ctactctcag gtgaaatacc acctgaactt 420
gggtactgca cagggctcca aaacatatat ctttacgaga actccctcac tggatccata 480
ccaagcaagt tgggaaacct taagaacctc gaaaaccttc tcctgtggca gaacaacct 540
gttggcacca tcccttcaga gattggatac tgcgagatgt tgtcagtgat tgacgtgtca 600
atgaac 606

<210> 4159

<211> 584

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220062a07a1

<400> 4159

aacactcact cattgaggct cacacataat ggaagaagcc tggttcataa tcctagtctc 60
tctctgtgtc tgcgtttctca taagagtcatt attattattc ttccttcaca aaaaaacct 120
agccacccca ccaggccctc ctcacatccc aatcatcaca agctttctat ggctcaaaaa 180
atccttcata gaactcgagc cattcctccg aaccctcgcc gccaaacacg gtcctatctt 240
cactctccgc ataggatcac gcccgcgtcat attcatcgcc aacagagccc tggcccacca 300
agccctaata caaaacgggt ccattttctc cgatcgcccc aaggccctcc ccgcccacca 360
aatcgtcagc agcaaccaac acaacatcaa ctccgtcccc tacggcgcca cctggcgcg 420
cctacgccgc aacctcgctc tcgagatgct ccacctccta cgcgtcatgt ccttctccgg 480
taccgcgaag tgggtcctac acacctcct cagcgccctc anacagatt cacaatccaa 540

cgattcaata taagtcatta accacttcca atactccatg ttct

584

<210> 4160
<211> 557
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220062a08a1

<400> 4160

ctctgttctc ttcaccattc tctttcttct ttgtttcaag tttcaacaac ccagattcac 60
tctctctctc gtaattttct ctcttattga ggctagaaaa agagagcaaa aaaactaaaa 120
aatgcctgcg gtcggaggta taaacaccgg agggggcaag gagtaccctg gaagcctcac 180
tctattttgtg acggtaacat gtatagttgc agccatgggt ggtttaatct tcggttacga 240
tatcggaatt tcaggtggag tgacgtccat ggatccgttt ctgctcaagt tntttccgtc 300
agtgttccgg aagaaaaact ccgacaaaac ggtgaaccag tactgccaat acgacagcca 360
gacactgacg atgttcacgt cgtccttgta cctcgccgct ttgctgtcgt cgttgggttg 420
cgccaccgtc acgcgtaaat tcggccggaa actctccatg cttttcggag gcttgctttt 480
cctcgtcggt gccctcataa acggtttcgc ccaacacgtt tggatgntaa tcgtgggtcg 540
gatctttgct cggttcg 557

<210> 4161
<211> 287
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062a09a1

<400> 4161

accagtggag gaagattaat ttggcgtaca tgggaaagcc aggcatttgt tcatcacct 60
ctcatcaact tgttctttta ttttaatttc tataatagta ataattttta tttgtgttgc 120
aagttgcaat tgatgatgat cacttatatt ttactctcg ttatattttt gtcggttcag 180
taagtcttag agatagttac agctagaaga catttgtaaa cggtttttagg acatcatggt 240
cgtcaaatta aaaacagtga aataaaattt gtggctgggt ttccaaa 287

<210> 4162
<211> 545
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062a10a1

<400> 4162

cttcaaccaa agccaaagtc tcaatttgtt taagcactac tgctaccaa ccaaaagggt 60
ttcgttcctt agggcggttt tccgatttct cggaaaccgc tctatatacc ctgcactgca 120
accacattcg ttatagtgtt cctaatttga aagaaagaga gaaagaaaaa attaattgtcc 180
ttggatttgt agaaattaat aaataatttt ggacgccctc tcccctcact cgcgactatg 240
ggtgcaaaac ggcaacaacc cagtgaatgg gtgaaaggta aacttgtagg gtgtggatct 300
tttggaatg tccatttggc aatgaacaaa accaccggtg ggctttttgt tgtgaaatca 360
ccacattcca gggctgaacg ccatgctttg gataaagagg tgaaaatcct aaacacttta 420
aattcatcac catacattgt ccaatgtttg gggaccgagg aggaggaaga agaccaaggc 480
aagctcaatg tttttatgga gtacatggcc gngngtaatt tggcagacat ggtgcacaag 540
tttgg 545

<210> 4163
<211> 567
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062a11a1

<400> 4163

ttggaatgga gatcccagta gaaaagattt tcctggcaca gaagatgatg atatacaagt 60
gtaatcttgt tgggaagcca gtggtgactg ctacccaaat gcttgaatca atgataaagt 120
ctcccaggcc aaccgagct gaagcaactg atgtagctaa tgcagttctt gatggaacag 180
attgtgtgat gcttagtggt gaaagtgtg ctggggcata ccagaactt gctgtgaaaa 240
tcatggctcg catttgcatt gaagcagaat catcccttga ctatggtgcc atcttcaaag 300
agatgataag gtctacccca ttgcctatga gtccattgga gagccttgca tcactgtctg 360
tccgcacagc aaacaaggcc aaagcaaac tcattgttgt gctgacacgt ggcgggtcta 420

cagccaagtt agttgccaag tataggccag cggttccaat attgtcgggtg gtggttttcag 480
 tgttgagcac ggactcattt gattggacct gcagtgatga gacgccagca aggcacagcc 540
 tgatatacag gggcttgatt cctatac 567

<210> 4164
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062a12a1
 <400> 4164

caataatgaa gatactcctg tcaaggatga atttatacgt cttccagctg aaataaaaaa 60
 tattgaaaag gattcttttg tctttcattt tgctagtgga aatgtagatt atggtatcaa 120
 agaagataaa attccaaca tcaaagtagc agccctagca gcacaaggaa tctccgagct 180
 tatgcctcct gatgttgcta atgcattttg gagttctgac aaagtctctt ctaaggtctc 240
 caaaagcatg cgtgatattg tcagagttgc tatgagtcaa gcacagaaaa gaacaagatt 300
 atctggggat acaaatttta gccggattat ctgttcaaga ggggattctg atccttttga 360
 tggactctat gttggtgcat ttggtcctta tggcatggaa atagtgcatt tgaggcgaaa 420
 atttggacat tggaatgaag tgaacaatga aaacaacact tcagatgttg gattctttga 480
 atatgtagag gctgtgaagt taactgggga tcttaatggt ccagct 526

<210> 4165
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062b01a1
 <400> 4165

gacctgcaat gagcatcgtc tagctatctc gatcgaactg tccaagttcc tgtcaccac 60
 acacaaacac acccacgaac gcccgaaacc aatcaaaatg aacagataaa ttgaatatag 120
 tatacagttg gcaacatcat catcctaaag ccgttcgggt cactgtgtat acgtcgggta 180
 ttgggcacgc ttctgttcag tttcaggggt tgtttttttt cttcgttggt cataattggt 240
 ctcttcaaat gggtctgttg ttgtacgagt tcgcacctc ggggtatccta gtgttggttg 300

tagttgttct ggtttgttta atggttactc gttcgtgacg tattaactct cttctaagtc 360
tctaatagtc cgctctaagc gtgtttggtc gccgtaataa tagcataatg tg 412

<210> 4166
<211> 544
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062b02a1

<400> 4166

ctcgagccga atcgggtcga ggccaaggag aaaagaaaaa aaaaaagaac tggactcctt 60
caattagtgc attgtttctt ttcttcaa atgtagcaaga agacattggt aatttgagag 120
atggcgagtt acgaggctat taagaacttt gatgatgatg atgatgatga tgatgatgtg 180
gagatggcac tccccatag ccagatctct gaatcaagat ctgccactgt ttcttcccc 240
attggccaaa ctaccccgct tcacattcac aacattattg aggaacaacg cattatctcc 300
aggcaccaac ctcaacccaa atctccgct ctggtttctc ttgatgtttt tcgtggtctc 360
accgtcgcgc tgatgatact tggtgatgat gctggcggac tcattcctgc gctcaaccat 420
tccccatgga atggtttaac actagctgat tatgtcatgc catttttctt atttattggt 480
ggtgtttcgc ttgcactctc atacaagaaa ctgtccttgt ggagttgatg catctagaaa 540
agca 544

<210> 4167
<211> 530
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062b02d1

<400> 4167

aaatataaaa ctaaatttta cattaatatt gtatcgtgtc caatgatgct tactctcttg 60
aaatctatca tttcaaggat ataaagtaaa agtacaatt atatcgaggt ggtgctatta 120
taaacaaacg ctgctccata tatagaaaag gtaatgcat caagagatgt agtgaactct 180
aaactatatt catcatccat gcagggtgacg tcatcaagag attagaagaa tatgctacac 240
ccgttcttgt tcttgatcaa aagattagct ccaaaaactc gggtagccat ttcttttaca 300

gtaaaacatg ttcacagtct tactgcatat aatcttttat ccaatagcat gtttatgtgc 360
 ctttcttcaa gtgccaactc caattaactt gagaatgtta ttgtgaggac ttccccaata 420
 aaatccttga aggaaaattg ggaaaacatt gcaagcagca aggatataaa tcattaatgc 480
 atgcatgccc atccattcca taaccaaagt catgcgacga catccacaga 530

<210> 4168
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220062b03a1
 <400> 4168

aaaaccaagc gcacgcttcc gccactcact ctcacccctc ctatcccca ctttcaagcc 60
 atattcttct tcagcttcgg ccttagttcc cgaacttgat attcaaccg acactcccca 120
 gaaccctaatt ctctcccccg aagaaacaac cttagccgac aagttccacg ccgcaattaa 180
 agagcaccac cgcagaaacc ccacacccaa ccctaacgcc cctcccccaa ctcccaacct 240
 caccatcccc gacctctccc tcgccttttc cgctatctcc gccgcccacc caatctcccc 300
 ctccgtcgcc caccgcgtca tcgagaaatg cggcgggcgt cgccacggca tcccccttct 360
 ccaatccctt gccttcttca actggctctc ctctctcgac ggcttccccg cctcgccgga 420
 gccctacaac gagatgctcg acctcgccgg aaaggtgaga caattcgacc tagcctggca 480
 cgtcatcgat ctcatgaagt ctcgcggcgt cgaaatcac 519

<210> 4169
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220062b03d1
 <400> 4169

accatacaga ataacagaat tcttaggagt gctgatttat gaacacttaa acaatccaaa 60
 tatataattg acccgcttca tttctcccta tttttctctt cattacatca catcactaat 120
 catatcaaca cctgtctctc ttctctagtt tcttgatgtc tgtatagata ttcttattca 180
 cgggcagtag aaaaaatgct gttgatgcaa gtctcgagag agaggtatcc atagaccgcc 240

tcccacttgt aagagcatct cagtctcttt tgaacatgcc gtaagttggt agcaacttca 300
cgaacaacag gaacacattt gcctagcata cagcatttca ttctgccaaa ccagtccatg 360
gcttataaag cataatttag catttcataa aaaataaatg gcaaccgtag ttagatgtaa 420
ataatatgaa cagaaacaaa tttgaaac 448

<210> 4170
<211> 436
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220062b04a1
<400> 4170

gcaaattaat gagattgtac atttgcaaca tcattttgct gacaaattaa gaaattgttt 60
tattgaacaa cctctatgca ggattcctag gacagaagtg ttctactatg gcttctctag 120
ctaggtacca tcttgagcct gttaaattga acaggtgttt ttgttgagcgt attagatgat 180
atctgctgag taaatatctt ggtgtacagg tgtgtgtata tatatatata tatatatatg 240
tacacatttg tatgtgtgag acgagaaaaa ttaggagaga aaggagaaag gaaaggagat 300
tcttagacta aaatccaatg ggtttagaat aagcttgga gtctttattg gaattctgta 360
gttatttttt gatttaagat ttttttactt taatcatggt aattctcaag aaataaaaaat 420
ataaaaaaaaa tgctgt 436

<210> 4171
<211> 409
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220062b04d1
<400> 4171

cttgagaatt aacatgatta aagtaaaaaa atcttaaaac aaaaaataac aacagaattc 60
caataaagac ttccaagctt attctaaacc attggatttt agtctaagaa tctcctttcc 120
tttctccttt ctctcctaatt ttttctcgtc tcacacatac aaatgtgtac atatatatat 180
atatatatat atacacacac ctgtacacca agatatttac tcagcagata tcatctaata 240
ctgcaacaaa aacacctgtt caatttaaca ggctcaagat ggtacctagc tagagaagcc 300

atagtgaaac acttctgtcc taggaatcct gcatagaggt tgttcaataa aacaatttct 360
taatttgtca gcaaaatgat gttgcacttg tacaatctca ttaatttgc 409

<210> 4172
<211> 547
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220062b05a1

<400> 4172

cttttccaga acagtaaaat tcaagtaaac caaaagccat aaatagtagt attaatttat 60
aatttattac tatttattat tattgtcatt ttctgttcta tattttttta aataccctga 120
aaccgcgaaa ccttagctga accctgtttc ctttctccgg ccaccgtaat ggatttcact 180
ccgcgcgcga tcgaggacgg ttccaccgcc gagaaactct tcacgcaggg cttctcctac 240
acatacgatg acgtcatctt tctccccac tacatcgact tcgctgccga cgtcgtggac 300
ctctccacgc gcctcacgcg ccgncttccc cttgccgtgc cgtttgttgc ctctccgatg 360
gacaccgtgt cggagtccgc catggcctnc gccatggcct ccctcggcgg catcgccgtc 420
gtccacttca acgtcctcgc cgtcgtccag gcggccatcc ttcgcaaagc gaagtcccgc 480
cgcgccccca tctctccga ccccgnettc ggcgcacctt ccgncgtcgt ggagcacgat 540
gacgcct 547

<210> 4173
<211> 626
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220062b06a1

<400> 4173

atcaaaactc aaaacttctc ttttctttca ttctctctct tttattctta tcatacaat 60
gccttcaatt cccgaagagc cctcctggc tccgaaccg gatcgcttct gcatgttccc 120
aatccaatac ccgcaaatct gggaaatgta caagaaagcc gaagcctcgt tctggacggc 180
ggaggaggtg gacctctccc aggacctccg cactgggac tccctcaccg acggcgagcg 240

ccacttcgtc acccacgtcc tcgccttctt cgccgcctcc gatggcatcg tcttcgagaa 300
 cctcgccggg cgcttcacaa aggagatcca gctccccgag gcccgggcct tctacggctt 360
 ccagatcgcc atcgagaaca tccactccga gatgtacagc ctntcctctg aaacctacat 420
 caaggactcc gaccagaaga accacctctt ccgtgccatc gacaccatcc cctgcgtcgc 480
 taagaaagcc cagtggggccc ttcgctggat cgattcctnc gacttcttcg ncgagcgtct 540
 cgttgccctt gcatgtgttg aaggatattt cttctctgta agcttctgcy ctatcttctg 600
 gctcaaaaac gaggactcat gccggg 626

<210> 4174
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220062b09a1
 <400> 4174

ctctgaccat gatgctacat tgatgcattc aatctctgag atatctgggg gtacgttttc 60
 tttcattgaa gctgaggatg tcattcagga tgcatttgca cagtgtattg ggggactctt 120
 gagtgtggtg gtgcaagaat tacaagtaga agttaggtgt gttcacctc aattgcaact 180
 tagttcagta aaagcaggaa gttaccaaac aagcttgatg gcgaatgcaa gactggctac 240
 tatcagtgtg ggagatttgt atgctgaaga ggaaagagat tttttggtga cagttaatgt 300
 tccagttgat aagtcaagtg ataagacatc gttgttgatc gtgaaaggtc tttaccgaga 360
 tcccataaca aaagaaatgg tggctttgga agaaaacagt gaagttagaa ttctgagatc 420
 tgatgtcggg ggaagagaac tgggtgtgtc aatacaggta gatagacagc gaaacaagct 480
 gacagcagct gatgcaatgg ctgatgctag agttgcagcc gaacgc 526

<210> 4175
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220062b11a1
 <400> 4175

ctcttcgtgc agattacatg atctttattg taaatcatgc ttgataattt gttgtttctc 60

tttaggtgac aaaatggctc tcgcggacat aatcccaaat tccaccttgg ccttaaacac 120
 gaccctatgg gtttgcgagc acacaactaa gtttcaacgt aattcaaagg gaatattcta 180
 caacggcaac cctttaaact acacattatc tgtgggtctc ctgcaggcct ccttagtttg 240
 tttgtccact acatgggttg aatcctttct tatcccat tgggagacca ccttcattcc 300
 acaagtgctg ggaggggttg tgacggtgcc atcaatactg ggacaaatta aaaatcttga 360
 caagttgctc ttcgctccaa aacctttcta cgtgtgtgag gcaatctctc tttacgggac 420
 cttgntgntc ctgttcttga tgggagtcaa aatagacata tctgtgctaa tgagactggg 480
 aaaaaagaat tgggcca 497

<210> 4176
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062b12a1
 <400> 4176

ctcgagccgc ttttctctgt ttctcccttt ctctctgtct ctctctcgtt cttcttctca 60
 tccagcaccg agtcacagac tcaccgatct tccgattccc tttcgtcttg gtttatgagc 120
 tcgaaggaga gacccactct tgggtggcacg cggattaaga cccgcaaacg gaatattgct 180
 gcgccgtgg accctgcagc attctcggat gcagtgggcc agatttattt ggataatgct 240
 ggtgatctgg aacttattgc taagagcatt gaatcttcag accttaactt ttcaagatac 300
 ggcgatacct tttttgaggt tgttttctact gggggctgta cacaacctgg aactaccaag 360
 cctgatgagg gggaccgtca tccatactct ataataagat gtgagcctaa gcgggaagtc 420
 atttaccat ctgtaatcta catacaaaag attttgcggc gaaggccatt tcttatcaag 480
 aatcttgaaa atgtcatgcg gaaattcctt cagtccttgg agcctttcga ggaaaatgag 540
 aggaaaaagt tggcaatctt cacagcac 568

<210> 4177
 <211> 206
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062c01a1

<400> 4177

tgagattagc actgagcatc gtctagctat ctcgatcgaa ctgtccaagg tcctgtcact 60
cgtggtgccc gaattatcct gttatgtcaa taacgctcct aagggtttaat ctggtgtggt 120
gacccccacg gtcaagttgc gcacgtgggt aagagcatcg tcggtggcaa gttgcacaag 180
ctgtgcaaaa cccatccaac caagga 206

<210> 4178

<211> 475

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220062c01d1

<400> 4178

atcattccgt tccaggaagg tttcccgtca tcaactgtatg acgtcctcct tctttggggg 60
ggggggggggg ggggggacac ctacgtaaaa acgggtcgac aaaagaaacg agatccggga 120
tttggtaggg gtgatcaacc ctgtaatagg agtaaaaaag acaaaaaggc ggtccaacga 180
tgtcgtgaag tcaaatgggtc aagattagag ctaagttatg taagtagaaa gacaaaaggg 240
gcgccataca tgttttaagt taagacacca tggtcgaacg aggaaaacca gaagaaaggg 300
aacaatgtcc gataaacaca atgttttaaaa acgtgttcgt aagaaagtac gttataaaag 360
cggtaatccg taggttccaa cagcattaac gcaacagcat tggcaattgt tattacaatt 420
aaagcgtccg gtgttcagta gtatgggtctt attgcgtatt agtgccttcg tgctg 475

<210> 4179

<211> 529

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220062c02a1

<400> 4179

tttcagtgag tgatcgggtg tcaacttgatc cttcataagt cgatcatcatc atcatcatca 60
tcaccgttga ttgaagaaga tgccgatcag aaacatcgcc atcggaaggc ctgaagaggc 120
tactcacccc gacacgttga aggcgggggtt ggctgagttc atctccacct tgatcttcgt 180

gttcgccggt tcaggttccg gcatcgcta caacaagctc accgacaacg gcgccgccac 240
 tccccgccgc ctcatctccg cttccatcgc ccatgctttc gccctcttcg tcgccgtctc 300
 cgtcggcgcc aacatctccg gcggccacgt caaccccgcc gtcaccttcg gcgccttcgt 360
 gggcggcaac atcaccttac tccgcggcat cgtctacgtc atcgcccagc tcctcggctc 420
 catcgtggcc tncctcctnc tcgccttcgt cactgcctcc cctgttccag cattcgggct 480
 ttacgctgga gtcggagttg gcaacgcttt ggtgttgag atcgtgatg 529

<210> 4180
 <211> 442
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220062c02d1

<400> 4180

aagaagtact agtgaaatgg tacaaccaac cagacccgaa taatgatata tacattcaat 60
 tcaattgtgg accaggtgag agcgagagca tgcacaaaat gataattaaa ttaacttaaa 120
 agaaaacttc aggatcatca accatccaac caaagatcaa cggccaccga ttcaacagga 180
 aagaaaacac aaaggaagga aaaccatata cagaagaaga ttccggagaa attcaataat 240
 acacattttt tttttttatt atttcatttt tcccctctag tagtcagtgc tgggaagctg 300
 ctcgtgggtg tggctgatga agacaacctc gtagataagc ccagcaattc caccttcgat 360
 gagagggccg gcccagtaga tccagtgggt ggtccaggtc cagctcacga cagcaggccc 420
 aaatgtcaca gcagggttca tg 442

<210> 4181
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220062c03a1

<400> 4181

aaccaaaga tgaaaagata gaaaataatg tcaatggaaa tgatggcaac cgaacgtgtt 60
 tgttatgtca ctgaattttc gccacactat tgggagtgtt ccatacagca atttgctaac 120
 catagtgcgc gctagatgtg gacattgtgc caatcttgct atcagttaac atgggagcgt 180

cacttcaagc attttccccc tcaagaccct cagtcacaga aacagcttct aagctttgaa 240
gaaccaagca gctgcaagga actgggatca tcatcttcaa aatgtaacaa aatagcgcca 300
tttcacgagg cagtagagca tgaataacct aggattccct ccattcgtcc tacagagaag 360
agacatcggg ttccttctgc ttataatcgc ttcattaaag aggaaattca aaggatta 418

<210> 4182
<211> 368
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062c03d1

<400> 4182

aaaaatatgc atactccaat aatattatag attatgatca tattataaag ggacattatt 60
atgatatata gaggaacgtg ttgtttactt aagtgtctaa attcaacaca ataatgcaa 120
tcacaagaat agcaatcatt tcataacaac gatttataga aaagggaat acatatatat 180
gtagtactat taaacattgg tgtgagagge tgagggttaac ttgcaggagt ctcccatcca 240
gttgtacgat atattgggaa gaaatttgat caacctgata tttttcactg atttaggtca 300
agcataacaa aaacaagctc atactcacag gttccattt atatcatcag tagaatccat 360
tagacttt 368

<210> 4183
<211> 529
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062c04a1

<400> 4183

gattcacaca attcatactt aaaaaatcat gccatggagc atttattagt ttatacccct 60
tctggtcatt taatccaata taaactacta ccaccattgg cggcagagtc aagtgaaact 120
gtttcaagaa cagccctagt tccttcagca cagatacaag aagaagattt gcgtgtgaag 180
gttgaacctg ttcaatggtg ggatgtctgt aggagatatg attggccaga aaaagaagtg 240
tgcataattg ggaatactgt tgggtgactg gaagctgcag aaatgatctt ggatagttca 300
gattatgaag ataataatag cgtcaggaac aataattcta taaaacttaa taagcaatgt 360

cactttctcaa atacagaggt acatataagc tctgggcgga taccaatttg gcaagaatct 420
gaggtgtctt tctttgtgat tagtccttag ggaagctgga gagctgaatt tatgtgaact 480
taattccagt ggagaaattg aaatgggaat attcccggta tgagattga 529

<210> 4184
<211> 367
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062c04d1

<400> 4184

cctgctcagt ggtcggcggc cgcccttttt tttttttttt ttttcaaag gtcaaagaa 60
tctcttgaat tcagcaagag tgtcacgaga aatataaata atcctgcatg aatgagaaca 120
aaagagagca gagtaaaaca aacaagctat ctatctgccc cctccccctt ttctctttca 180
gctgttcctt ttgcctccaa agcaatgaac tatgaagaaa aaaatataat acacatataa 240
agaaccacaca cccagaaccc acacaaataa ttggtagtta tgaatttcaa tatacatcat 300
ttacatggaa attagaaggt cagaagaatc attggactgg gaaggaattt cgagagtga 360
gaacatt 367

<210> 4185
<211> 645
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062c05a1

<400> 4185

aagcattcca tagcctccca taaaaatgaa gaatactatc ttctctgctc tctttctact 60
ttgtgccttc accacctcat acctaccttc aaccaccgcg gtggtcgata ccgacggtga 120
tattcttcag aatcctggca catactttat cttgtccggt tttcgaccg gcggcggagt 180
agaattcgcc gccactggaa acgaaacttg ccctctcact gtcgtgcaga ctctcttcgg 240
gaggggcttt ccagcaatat tatcgtcccg gttacgaatc cttttcatcg gcgaaggaca 300
actcttcagc atcctgttcc gtattgtgcc atgggtgcgc accactcctt ctaagtggac 360
cattgtggag gggtttaccag aatcaccgcg gggttaaactc actgggtacg acaacacagt 420

gcctggtgag tttaaaattg agaaagctaa ccctttccat aacgactata cccttttggt 480
 ctgtccagct ggcgaagaaa gcatatgtgg gcatattggg aatcatttcg atgatgatgg 540
 aaacaggcgt ttggtggtgt ctgaggagaa tatattaagg gttcagtttc aggaaattcg 600
 atcatcagca ccggatgagg catcactggc ccttaaaaac atcat 645

<210> 4186
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062c06a1

<400> 4186

ctcttcaaga gcgtattaca acaaccaaga agggctcaat tacctctgtc caagctatct 60
 atgtgcctgc tgatgacttg acagatcctg ctctgctac cacttttgct cacttggatg 120
 ccacaacagt gttatcacga cagatctccg agcttggtat ctatcctgct gttgaccct 180
 tggattctac atctcgtatg ctttcccccc ttattttggg tgcggatcac tatgaaactg 240
 ctctggtgt acagaaagta cttcagaact acaagaatct tcaagatata attgctatct 300
 tgggaatgga tgagctcagt gaagatgata aattgactgt tgcccgtgcc cgtaagattc 360
 agcgattctt aagccagcct ttccatgttg cagaagtctt cactggtgcc ccaggaaaat 420
 atgttgagtt gaaggagaac atcaccagtt tccagggtgt gttggatggc aaatacgatg 480
 accttcaga gcagtcgttt tacatg 506

<210> 4187
 <211> 602
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062c08a1

<400> 4187

ctttgtttgc ttctcaagtc tctcgaagcc tctttctctc tcttctagaa gctatctgtg 60
 tttggtgtta ctaagtctcc aacaagcaaa gtacatgggt gatttggaaa tccaggtccc 120
 caccattc gaccggttg ccgaggcgag agaatcggat gccccggag caaaggagta 180
 tgtgcatatt cgaattcagc agaggaatgg gaagaagagt ctgaccacag tgcaagggt 240

gaagaaggag ttcagctacg agaagatcct caaggacctc aagaaggagt tctgctgcaa 300
 cggaaccgtg gtgcaggaca aggagcttgg caagatcatc caactccaag gcgaccagcg 360
 taagaacgtc tcccacttcc tcgttcaggc tggccttgctc aggaaggacc agatcaagat 420
 tcatggtttt tgaccaattg gtcttgtttt tggtagtagt aatttcaagt tgttcttgag 480
 tttgtgagtt ttgaaagttt ggattgtttt tctgtttgat gagtgggtgtt ggaataagtt 540
 tggtttggtt tggtttggtt tggtttccaa ttttaatgat tggatttcat ggatgttggt 600
 ag 602

<210> 4188
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220062c09a1

<400> 4188

cgtatttggt tttccaagca tggaccttcc catcaacaca cgcaccctt acacgctgca 60
 tcatcatcgc tccgccggtt gagatgttcc cgccgccgcc gcagacgacc ctcccctccc 120
 tgccggatct actcctcacg gccctctccg tctgcttccct agtttcgtcc tcgaagcccc 180
 acatcggcgg ctccaccgcg tgccccctcc cgcgtcgctt cctcaaaatc cccgccatgt 240
 ccctcacaaa cacaacaacg tcgaaatcct cgaaaaacaa caatctcaac aacaccctcc 300
 tcctccgcg cgccacagc ttgcggtccc cgcagtcgct ctcgagtggt ctgaagccgc 360
 ggctcccttc cgagtcgttc gcctcgtggg gcgtgaagcc gggcaccaag aacgtgcaca 420
 acctctggct cgagctctcc cagggggaaa ccttctcgc tgactccacc cctccggtac 480
 gaaccgttca cgtcgtcttc gttcgcgtca ccggaaaaca cggcatgatc cttgtagaat 540
 cgcaccagga gttgtcg 557

<210> 4189
 <211> 627
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220062c10a1

<400> 4189

ctctttgggg gatgccttaa gtgaagcctc aacggtggtg tttagtctca cattgtctag 60
 agatatagct taaatagaac ttataaagct tggacattcc tcttcttata agtcagtttt 120
 gtgggggttga agtaggtcct aagcccaact tetaacactt attataattc tatacgtaaa 180
 taccttgtaa cgatcacaag acaacggaat tgtgtgacca actaattttt tatcttgcca 240
 caactgattc attctgttgt ttggtagttg ttatcacagg caaaccagcc ataattgatt 300
 aatttcacat tatttgaaat tttccagtgt tattttatttg tatttcaggt tgtgtttttg 360
 tccatagaaa acatcatgaa ttttgcagca tcattgtgca gaagattgaa tatcaaggaa 420
 ctcgcgacaa atgttcctgt gtataaaagc accagtgatg tttctggaga aggtttgagt 480
 ttcacgttca ggcgttgggc ttccaaaaag actgctggtt ccacaaagaa tggacgggat 540
 tcaaaaccca agaaccttgg agtgaagaaa tttggtgcga gaaggtgata cctggaaata 600
 tcattgttcg acagcgtggc actcgtt 627

<210> 4190
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062c11a1
 <400> 4190

ctcgagccgc tcgagccgat tcggctcgag gttggaaagt tctattcaaa cccttggttc 60
 cagtacttta accgaaaccc ctagttctat tcacgcgatt ccgcagaacc agagcgtctt 120
 ctccagagaa ttgaactttt ctgagtatgg tttcgacca aagactggga acaatcagaa 180
 tcaccattct ctgaagccgg aatccggcga gattctcagc ttcggcgaga gcaagagaa 240
 ctctacggc ggcgtcaatg ggaattccaa ttccaattcc cattttttct ccggtcagtc 300
 gccgtttggt gctgctgcgg atgagaacac caacaaaaat aacatcaaca acaatgggaa 360
 gacaaagtca ccgaattcgc gcggtagcaa cgacgacgga atgctttcct tcaccttcgg 420
 cgtgattctt ccggcctcga atttgaagtc cgggtggcggc ggcgattccg accactcgga 480
 tctggaggct tcggtggtga aggacccggt ggtggagccg gagaa 525

<210> 4191
 <211> 584
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220062d01a1

<400> 4191

tgaggctgca ctgagcatca gtctaggcta tgctgcatg cgaacgtgat cccaagcgtc 60
catggtcaca accgcggcca gacaccataa cagctgcgta tcccaatagt agcttaaaga 120
ttaccatcga tggcgtatcc gattggcgaa accgtactac agttgaaaag gctataccta 180
aacatagggtt aacacatggc gtataccata cgcgatgacca agggcggttcg cgaataaccc 240
caagacaccg cttagaattg ggttgtaacc cgtggccgta tgcgaggcac gtaagtatta 300
cttaggaacc aagcgctaaa tgggggtgag caccgcgcca ggccagttgg ttcgacgcgt 360
atggatggcg acgggcgaaa ccaaccagcg tgtaccattc gtgacatgag cgagcgttaa 420
acgtcatgga gcagccgttt gcatccggct aagacacatt ggccattctg caaaagagta 480
agaatttgct gaggatgctg tggaatagtc aaagactcgg ctggacttaa aggctaggtc 540
aacttagagc taaagagggtg aaggaacata agggagcgag agat 584

<210> 4192

<211> 503

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220062d02a1

<400> 4192

aaacacaaca agaagaaaga agagggtatt tctgcagcac caccaccatc aactaccgaa 60
tgtgctcttt ctctttctc ctttcaaca acaacaacca ccaccaccct ctgtcgccac 120
atatttaaca acaattacta caacttgact aaacaaaact gtttttcttt ttttcttttt 180
tttttaccat ggaactggct ttgagtttgg gagacacgtc caagtctttt acctttctcg 240
acaaggccgc ggtgaattta ccaccaaca aggaccacc tgggttggtc agcttggcgc 300
cgagtttcgc cgccaccgcc gtcgccgccg ataaaagaag cgatgctgct gagaggaggg 360
gtttttcttc agatccaccg gttcagctcg accttcttcc tttctctccg gttctcagac 420
ccaacaaca acctncctct caacttcgga tcccttggtc caccgaagca tgcgngcng 480
ccagggtgct agacgtgaac cta 503

<210> 4193
<211> 347
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062d02d1

<400> 4193

acaagaaaag tctaaattat atacaaacga tataaatagg ggaaccggaa ttcctttgtc 60
tttatcctct atgatataac tataatataa ggttacatta tatcatatgt aattaaaaaa 120
ccagccaaaa aaaatgtctt ctgatgacaa atcatgaaga agctatttga tgagcttggg 180
cctgtccatt ggggaagggc aatattctgg gcttgctgaa agacaattcc actgggattt 240
gagaagcatt gttgttaacg gtggtagttt ggtagttgt ggtggaattt gtggcaaccc 300
tttcacaaga gggacacatg gtgagtgtgg tggctggaag ttgcatg 347

<210> 4194
<211> 194
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220062d03d1

<400> 4194

tcacactatt acattgttgt catcttntat atttaaatag tcttatctat actgactata 60
taatctgtaa tgctattcag ttaacttatt gattcattat aatttcatta atactatcat 120
ttactattta tatctacttt tgttatttat ggtagtattc ttaccaatta ctgaataatt 180
ccaggatcta acta 194

<210> 4195
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062d04a1

<400> 4195

cttctatcac caccacgaag attaacaatg tctcacacca gaaagcactc tccttttctg 60

ttcccaaagt ttgattccac tgttgccct gacccctcca atttcttctc cccaaacctt 120
 ctctcaaata cactccccac aaactccttc ttccaaaact ttgtcctaaa aaacgggtgac 180
 caacctgaat acattcaccc ttacctcatc aaatcctcaa acttttctct ctccctctca 240
 taccatctc gcttcttcaa ctctccttc atctaccaag tcttcaaccc tgatctcacc 300
 atctcttctt ctcaaaaata ccacctttcc catttgaacc acaccatctc ttcccacaat 360
 gatctcagtg ttacattgga tatcccttct tccaatttga gggtttttct tgttagggga 420
 agcccccttt tgaccctctc tgtgactcaa ccaaccctc tttccatcac cacaatccat 480
 gcaattctct ctttttctt cagcgagtca ctcaccaaac acacttt 527

<210> 4196
 <211> 609
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062d05a1
 <400> 4196

cactctcatc ttcttattct tctgcttca ctctctgact caatcggttct aatccacaaa 60
 aaatgacctt aaattacaac attgccctcg cttctctgac ggtgctcagc ctgctcctct 120
 ttcccctact gaccgtaggg gagctcgtgg aggagcagcc actagctctc aagtaccaca 180
 acggccagct cctgaagggc cgcctcaccg tcaatctcat ctggtaaggc accttcaccc 240
 cgatccaacg gtccataatc gtggacttca taaactcgtt aagcagcgcg ccaaacgcgc 300
 ctctcccctc gaccgccacg tgggtgaaaa ccacggagaa gtacaagggtg ggaggaggat 360
 cccctgcgct cgtcgtaggg atgcagttcc tacaccggc ttacacgcta gggaaaaatc 420
 tcaaaggaag agatctctc gactcgcgt caaagttcaa cgagattaac tcgataacgg 480
 tgggtgtaac ggcgaaggac gttgccgttg agggcttctg catgagccgc tgtggcaccc 540
 acggctctac ccggaacgtt aaaaagtatg cccgaaccgc atatatctgg gttggaaact 600
 tcgaaacac 609

<210> 4197
 <211> 585
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062d06a1

<400> 4197

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gaacccctat atgaagaagc aggatggggt cctactggat tctctgttga tcttatagca 180
gcacaagcag ttagatcact ccatattgca aaggaggcgg atgaagcaag gattatcttc 240
taaaggaatg ctgaatgaag tcttgtttgt gtcttttctg gtcactggag atgaagtctt 300
aatcttctgt tatcttactg gaggttgtct tctgcatatt acttctatat aatatgcttg 360
tcagctacgt tctgcttcag ttgtgactga agaacttttt gctgtgtcat catattttct 420
tctgattttc attaactgca tgcaaggctg ctaattttct attggagtga cttttcatac 480
tctgattggt atggagatnt atactttttt gagttgatta cacataatat aaatgctcga 540
gtggaactca atgactcata atttatatat acttgcatg tgccc 585

<210> 4198
<211> 585
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062d07a1

<400> 4198

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ataccatgga caacaactat gacttttggg aattcagtga ccagttgagg cttgaatctg 120
gtttggccaa tctgtctctg aatgattatt ccatttggag caacagctac agcttcaaga 180
ggcctgatca gaggaggaac tttgatgtca agggcagtga tttcaacaac aacaacaact 240
catcaaaggc ttttgatgat gatatcaatg atgggtggaa gatcaccaat tccaatggac 300
cccttttctc tatgcttcac atcaacaaca acaacacttt tgaagttgga ggcttcaaca 360
agggaggatg aatctatttc aacaccaaca ccaccatttc cttctaccat tctaataacc 420
ttaacaacaa cgcttttggg ggcttcaaca agggaatcta ttccaacacc acatcctaac 480
cctatcttaa caacaaccac caacatctcg acgacaacaa caaccttaac agaaataatc 540
ttaagggtga caagacatat ttaagggtga agatcagttt acaca 585

<210> 4199
<211> 628
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062d09a1

<400> 4199

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ctgtctcttt cttccctttt tcggaagtca gcgtcaccgc ttcacatcg gtgaaatacc 120
caaaaccaga caccgcatc aactgattac aacagtttct tcatagcgag ttctgtcttc 180
aaaatcattg ctttatgttg gtgtctttct ggggttggtg cttcttccac aatggtagag 240
agagagagag agagagaaag aaaggaaaga aagagtttgg aggaagatag agcgacatac 300
tgagaagggg gtcctactgc ttaatttttt aggggcatca acagtctctg tccatgattt 360
ttacttgggt tgggtggtgc tgctgtgtcc tcaaattgac ccatccaatc accatcactg 420
gattcagcat cacactcctt tctatctcac cattttgatc aataaaccaa agcttctctc 480
tctctctttg gtcctttttc catcactagg aggatttcaa attggtcatt gaggggtggt 540
caaaagctct gcttttggtc atacggacat agtgatctca ctcatatgaa gagactttca 600
acttggtgga tgggttttgg tcttgcatt 628

<210> 4200
<211> 557
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062d10a1

<400> 4200

gagaaacacg cgaacaatgt ggtgagtgc tcatgcaagc ctctgcaatt gtctctgttt 60
ctgtctcttt cttccctttt tcggaagtca gcgtcaccgc ttcacatcg gtgaaatacc 120
caaaaccaga caccgcatc aactgattac aacagtttct tcatagcgag ttctgtcttc 180
aaaatcattg ctttatgttg gtgtctttct ggggttggtg cttcttccac aatggtagag 240
agagagagag agagagaaag aaaggaaaga aagagtttgg aggaagatag agcgacatac 300
tgagaagggg gtcctactgc ttaatttttt aggggcatca acagtctctg tccatgattg 360

ttacttgggt tgggtggtgc tgctgtgtcc tcaaattgac ccatccaatc accatcactg 420
tattcagcat cacactcctt tctatctcac cattttgatc aatagaccaa aagctttctc 480
tctctctttg gtcccttttc catcactaag aaggatttca caattgggtca ttgagggtgg 540
ctcaaaagct ctgcttc 557

<210> 4201
<211> 524
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062d11a1

<400> 4201

ggaggatgt tagttcgggc taaagcttgc agactgcctt tgttaaagaa tttcgagttg 60
ttgtcgtgca atatgattgg caaatcaatt ataaactaat ctgttattac gttattctga 120
tacttttccc tagaaatgaa ttattttgat gtatcaatta ccaaaatggg ttttttgtgc 180
ccccgtttct gtatttttct ctgatgtgtt agataaatgt gagtgcccct gactggagtt 240
tctgtgaaca ggtgcccctg ccatgacttc tagggggttg gttgaaaaag actttgagca 300
gattggtgag ttccttcacc gtgctgtgac tctcacactg gagatccaga aggagcatgg 360
caaacttctc aaggatttca acaaggggtct cgtcaacaac aaggctattg aagatctcac 420
agctgatgtt gagaagttct ctgccttgat tgacatgcct ggcttacttg tatctgaaat 480
gaagacaagg attatgttca accataccac tttctactaa attg 524

<210> 4202
<211> 603
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220062d12a1

<400> 4202

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cagtttctcg ttttctcatc tgaaaaatga ggagcatctt tgtccttctc cttgttctgg 120
gtttgtttaa gtatgcattt gctgaagaag ggttttgctc tgctccttcg gaatcgaaat 180

caaagcctct ttattggaaa gtggataacc ccactctctc acctatccac cttcaagatt 240
 tgcctggatt cacacgcagt gtttataaga gtaatcatgc tttggatatca ccagaaagtc 300
 atgtatatgg cccattgcct gattggatcg acacgtcagg cgcataattha atttcaccag 360
 aaatgggttc acactttgta atgtacctag ctaagttgaa agaaaaatca aaatcaggac 420
 taccctgcc tgggtgtggag agatttatct ntgtgctcca aggtgctgtc accctcacta 480
 atgctgctgg tgtagccaa ctactgaagg ttgattctta tgcttatntt cctccaaatt 540
 ttgaacattc aattgaatgt gatacacctg ctactattgt ggtattngaa ccgagatttt 600
 ctc 603

<210> 4203
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062e01a1
 <400> 4203

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 ggttgattta taaggggagg ttggttgtgg tgtggtggtc tgtatgagag aaggtaggta 120
 gtgtgtgtgg ggtgtggggt actgatggga cttcctgagg taccaagtac catgaccggy 180
 ggctgtacg tgaggaagcg ttctgcgtga ggctgcact agacctagcc gtactaaaac 240
 caagtaccaa aaggaaaaac agtcattaaa agcagcacac atgggatcaa taaagccagg 300
 aacaagcgta ccgggtgtac cctggctgat gggtaagttg gccagatga gcggcacaat 360
 tgccaagaca ggggtaggtg aaccgagtta gcgtaatggt ggtatctcac gtacactgat 420

<210> 4204
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220062e01d1
 <400> 4204

tcgattccgt tccaggaagg tttcccgtca tcaactgtatg acgtcctcct tctttggggg 60
 gggggggggg aagtgcttgc attgttggcg taacgggtgtg gatggtggta ccgaatgcgc 120

tagcggcaac ttccatgtcg gaattactgg tagtaagtaa agtgagactg ggcgtcccta 180
 aaaagtcagt atgcgagaga tgccgatcat agtgcgctac tactgataac acttgtagta 240
 tgagacgtcc aatggcgccg caagggtaga gtctgtgtga cagtttggtg cgagggngag 300
 cctgggtagt gatcgggcca tgtgcatatg ggaatgccat gccaaagatcg tgtgttaaca 360
 ntaccagtgg gggtaagggc atggttgaga tgtcgtgaac gggcgccatg ttaagatatg 420
 cgacgggtatt gtgcgtaaca ctgcctggga cgagcggact actagtaagg cttttg 476

<210> 4205
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062e02a1
 <400> 4205

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 gatggcgccc gatcctactc gcgcggtgcc tagcgccagc gtcaacgacg tcagagacga 120
 ctccgggggtc aaaatgaagg tggacaacga agatctgctc aatgaggatt tgggtgctgaa 180
 acagaaatag gagcagtacg tggatcgggg acaggatcct gtcctgggat cgcagatgga 240
 tgaactctgg agcgtgaggc aggactttct agcttccacg agctgtatga cttgtggtac 300
 tcagccgtag aagttccttc gtcgtcatta cggcactctt aaatcgtatt at 352

<210> 4206
 <211> 307
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062e02d1
 <400> 4206

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 gaaattaaaa accgtcatga gctagacgac tcacttagga tctcactatc caaacgaata 120
 aagggtcaaa aataagtgcc ttctacattg gggcaccatt tgaaatgcat tatcacgaac 180
 tactgttcat acacttggaa cagactaaaa aagcatcacc agtgtggtat ccctgactct 240
 tccgtgatat cagtattctg gatacatatt accaaacctg gaagaattgg agagcgggca 300

atgtact

307

<210> 4207
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062e03a1

<400> 4207

agcaagaata gtgggttctgc tacctgcaag cgtgggtttg ttcagttctg ttatgagccc 60
atcaagcaga ttattaacac ttgtatgaat gatcagaagg ataagctgtg gcctatgctg 120
caaaagcttg gggtcacat gaaatctgag gagaaggacc tcatgggtaa agcattgatg 180
aagcgtgtca tgcaaacctg gcttccagca agtagtgctc tattggaaat gatgatattt 240
catctaccct ctccatcaac agcccagaag tatcgtgtgg agaacttgta tgaggggtcct 300
cttgatgata aatatgcttc tgctatcaga aattgtgatc ctgaagggtcc tctgatgctc 360
tatgtctcca agatgattcc agcatctgat aaggggagat tttttgcctt tggccgtgta 420
ttctctggca gggtttcaac tggtttgaag gtgaagatta tgggacctaa ttatgtccct 480
ggggagaaaa aggatttgta tggtttaaag tgtgcaacga actgtcattt ggatg 535

<210> 4208
<211> 447
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062e03d1

<400> 4208

cgcaaaataa taatttgaac caacaccgat gcaaaatcct attagagcaa aaatacatcg 60
atgcaaggac caaataacag cattacaaca ttcacgggca aaaccacaaa caaaactaac 120
agaaattaaa tctaaggtag cattgttcac aagagaaaat aaattcgact aagttcaaag 180
taaaataatt catgaaacaa atttaaagct tgtcttcaaa ctcgagaga ggagtcattc 240
gttccttcaa gcccttcctc ttgcgaatgt cagtgacaag ctgtgcagct tgtgatccag 300
cctccaatgg gtcagaagac atcatgtccc agtgatcaaa cacacattgt gggaaggcct 360
ggcctgatgt tgcagccctc aatgtgctcg agaaacaaa ggactcgatg acagggaggt 420

atgccttgat gttgtatagt ggggtac

447

<210> 4209

<211> 522

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220062e04a1

<400> 4209

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cagccttcat agtgcccaaa tccagaaaga gggtagcccc aattgtgaag gggtagccct 120

taattggagg actcatccgt ttccctcaaag gtccaatctt tatgctccgt gacgagtacc 180

ctaagcttgg aagtgtcttc actctcaaac tcttccacaa gaacatcacc ttccctcattg 240

gccctgaggt ttctgcacac ttcttcaagg cctcagagac tgatctcagc cagcaagagg 300

tgtatcagtt caatgtgcca acttttggac ctgggggtggc ctttgatgtt gattactctg 360

tgaggcaaga acagttcagg ttcttcaactg aggctcttaa ggccaacaag ctcaagggtt 420

atgtcaatca gatggttgca gaagctgatg actatttctc atagtgggga ccaagtgggtg 480

aggttgattt gaagtatgag cttgagcatc tgatcatctt ga 522

<210> 4210

<211> 454

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220062e05a1

<400> 4210

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ttctgttaaa gaatcctttg gttactctct ctaccgacat tatctccctt tatatcagtt 120

gtcctaagca gagtttctaa agcaaaagaa aggaagacga aagcaaagg taggcattga 180

ccccttagca caaaggaaaa gaggggtggc gttgtgttaa aaaaatactg aacttggttg 240

gttctaagta gaaacaaaaa ttggcatttt ccatttctg cattttcggt tcgggagagg 300

agaaaccaag aattaagaaa tgggatgctc cctaagagtt tgttgaggct tacttttggt 360

gtaggaggcg gcatgagata gaggggacga cccttataga tactacactt ggaatgtcac 420

atatggagac atttatccac ttggtggtaa acaa

454

<210> 4211

<211> 655

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220062e06a1

<400> 4211

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tttcaaatat ctctgttcct ctctcacgta ccttctccct atctttcact ccacttctta 120

acaccacaaa acagaacaac ggccgagcaa acaacaagaa aaatggtggt gttgtccaaa 180

gcaacaacag aacaatactc ctacattaag aactgcatgc caaccaaatt ttcctcaaca 240

attcccatag tgaacctctc caaacctgat gcaaagaccc ttatagttaa ggcttgtgag 300

gagtttggat tcttcaaagt catcaatcat ggtgtctcca tggaagctat atccgaattg 360

gaatatgaag ccttcaaatt cttctctatg tcaactcaatg aaaaggaaaa agtaggacct 420

cccaatccat ttgggtatgg tagcaagaaa attggacaca atgtggacgt tggttggatt 480

gagtaccttc ttctcaacac caatcaagaa cacaacttct ctgtttatgg caaaaactct 540

gagaaattaa gtgtctgttg acagtacatg tcttctgtag gaagatgcat gtgagatctt 600

gagttgatgc agatgggttg agattcacac aggatgtgtt agcagcttct atgat 655

<210> 4212

<211> 616

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220062e07a1

<400> 4212

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tgaagaagtt caagaggcct caaagtgaca ggaagatttc tgtgaagaca aactggcgca 120

gaccaaaggg tatcgattcc cgtgttagga gaaagttcaa gggatgcact ttgatgccga 180

acattggtta tgcttcagac aagaagaccc gccactatct cccgaatggt ttcaagaaat 240

ttgttgttca caatgtgaag gatttgaac tgctcatgat gcacaacagg acttactgtg 300
 ctgagattgc ccacaatata tccacaagaa agagaaaaga tatagtcgag agagccgcgc 360
 agcttgaatg ttgtgtgaca tataaaacgg ccagattacg tagccaggag gatgaatagt 420
 ctaaattgact ganaattact tattttagtg gaacctggtg acactagtgtg tgacaattga 480
 ttttgatcat cttttattct cgataaattg taggactgaa atttacttgt ttgtagtga 540
 cctgggtgaca ctagtgtgac attgtatttg atcatctttt atcctcgatt aatcgataaa 600
 aaaattgctt ttgatc 616

<210> 4213
 <211> 623
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220062e08a1
 <400> 4213

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 tgaatttttt ttctttctga atcacatcag attcaattga attatacccc ctcaatgcaa 120
 tgggtggtctg caaatgtcgc aaggctacta agttatattg cttcgtgcac aaagttcctg 180
 tctgtgggga atgtatctgc ttcccggagc accaaatctg cgtgggtccgg acttattccg 240
 aatgggttat agatggggag tatgattggc ctccgaaatg ctgccaatgc cagtctgttt 300
 tagaagaggg ggatggatct ccaacaactc gactgggttg tttgcatgtt atccacacaa 360
 agtgcttggc ctgcgatatc aagagttttc ctccacatac tgccccagca ggatatgtgt 420
 gtccttcattg ttctactacg atatggcctc ctaaaagtgt gaaagattca agatcacgtc 480
 ttcattccaa gntgaaggaa gctatcatgc aatctggtat ggagaagaat gtttttggaa 540
 tcatcctgat tagtgacaga attacgaagt ccttcacctg cttttgctta gaccattga 600
 tattagggaa aatcatgaaa ctc 623

<210> 4214
 <211> 542
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220062e09a1

<400> 4214

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tgtggagatg tctctgctct cagatctcat caaccttaac ctctccgata ccaccgagaa 120
ggtgatcgca gagtacatat ggatcgggtg atcaggaatg gacctgagga gcaaagcaag 180
gactctccca ggaccagtta gcgacccttc agagcttccc aagtggaaact atgatggttc 240
cagcacaggt caagctcctg gtgaagacag tgaagtgatt ctataccac aagccattgt 300
cagggatcca ttcagaagg gtaacaatat cttgggtatc tgtgatgcct acactcctgc 360
tggaagaacct attcccacta acaagaggca cgctgctgcc aagggttatca gccatcctga 420
tgttggtgct gaagtgccat ggtacggtat tgaacaagaa tacaccttgt tgcagaaaga 480
tatccaatgg cctcttgggt ggctgttggt tggtttccct ggacctcang gtccatacta 540
ct 542

<210> 4215

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220062e10a1

<400> 4215

cacaattccc tctaatactc ctcttacttc ttctacattc taacatgcct acatcgtgtc 60
tgctactgaa tggaaactaa gttgtgaaat catgggcata ttcagatgtg ggaccttgtt 120
tttccatgtg ctctttttgt ttagaacctg tctggccaaa gatcaacatg ttagtcagat 180
atatcctggc ttcagtgcct ctccagccaga ttggagcgac cataatgggt ttttcttgc 240
atccaacagc tcagctttcg cttttggatt cttcactact cttgatgttt catcgtttgt 300
tttagttgtc atgcacttaa gcagctacaa agtgggttgg actgccaaca gaggcttact 360
cgttgggact tctgataaat ttgtgcttga ccatgatggg aatgcatatt tggagggtgg 420
gaatggtgta gtttgggcaa caaatacaag aggacaaaaa ataagatcca tggaaattgct 480
taactcaggg atattggtgt tgcttgtgga aaatgggaca actattttgc aaagttttag 540
ccatcccact gatactcttt tgcccgacaa g 571

<210> 4216
<211> 144
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062e11a1

<400> 4216

ggattatggc cgctaccggg aatactatga gcaggacgtt gggcttagag actcagaact 60
tagggtcaga gctgagggtc tgaggattac gcacaacaca gtagatgatg atccgtgcc 120
gagaacgatg gatgaggaat atcc 144

<210> 4217
<211> 416
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062f01a1

<400> 4217

tgagagtagc actgagcatc gtctagctat ctcgatcgaa ctgtccaagg tcctgtcacc 60
gggagggcat aaagccgggc tgggtccggtt cctgggttatg taattaaatt ccggtgatcg 120
ttatgttttg attgtttatc tcttagcact aatcggtcta accattgtag ttatccaggt 180
ttgtacaaaa ttagtggtca tgtctgtaat cacaataatt gtgttggtcc gagtgatgat 240
tacaatagtt ttgttatatg tgggtggaac acttgctgta aaggaaagaa tcttgcaacg 300
gttagcatga tggtggcaac ggtaccaa atgttcacaa acccaagtca ttcaaggatc 360
ccgccgccac tacaccgatg gtcagcgtca ccgggggttc atcaatcagc agtagt 416

<210> 4218
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062f01d1

<400> 4218

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gggggggggg gggtagaaaa cgataatata cgatatcgaa gatagggcag gggcgagtac 120

caacgtaaag agggaccaaa gataagaaag agggagacaa cgggtatggg ggcaacaaga 180
 agggattaca aagaaaagga ggggaggggtg ccgaaaaggt ggggtaaggg aacaataagt 240
 agttatgaaa aggcggtagc ggcaatcaaa ggaagtaagg agtgcataaa ggcggtggta 300
 atggaaaaga tggggatgaa caatatggcg aggggggggtt gaaataggag acgcaagagc 360
 gtgatagaga gattagaggg atccccgaga cgcgcaaaca agtacgaaca ggtgataacg 420
 ggcgccggag tgtagtagt catgtgctgg cgcacccaac cgtttagtagc gcataagcct 480
 gcaggtagg 489

<210> 4219
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062f02a1

<400> 4219

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 cctctgagaa aattttgggc tccctgttcg gttccaaatg cggtcactcc aagggcggtt 180
 atgtcttcta tctcgaccac cgaagctttt cacaatagtg aaagtccac agcttatagt 240
 tctgatcaaa ttcagggtgct tgaaggcttg gaccctgtga ggaaaaggcc cgggatgtat 300
 attggaagca ccggcccacg agggttgcac catttggtgt atgaaatttt ggataatgct 360
 gctgatgaag ctcaagctgg gtttgcttgc aagattgatg tatgtttact tgcggatgat 420
 tctgtgagca tcacagacaa tggtcgctgg attcctactg actagcatcc agttacaaat 480
 aaatctgcct tggagacagt gttgac 506

<210> 4220
 <211> 523
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062f02d1

<400> 4220

gatcacagta cactttaacc ttgcatttta atggtaacct gtgaagggtg acatctgaag 60

tacttgaata tgattacacg tgcagttaca aaatttggga ccatacatag gtggggggcaa 120
 aaaaacatat gcacttgaca aatttttttaa aataaaatta gaacctccaa catgcctccc 180
 aaatatttcc catcaactaa aagtgcaact ccattttgtg ctagtaaacc cttcctctaa 240
 atcatcaaat ggcaccaatg aaaaaacagg agccttgctt tcattcaaga cctctccaca 300
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 tcatgcttgc agagtttcgt ataagttcct tccgaaaatc cacccgagta ccataagag 480
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<210> 4221
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220062f03a1
 <400> 4221

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 gtgttccaga ttcagctcca actgtgcaga cagggtgtgt aaatcaagat gggcaattga 120
 aatcatcatc aaacattcag caacaagccc aacaacaaac tttgcagccg ggtttacctg 180
 cttctactgg tgttaatact tcatcgggaa cttatcacg ctccagattt cactgggtccc 240
 atgcccttat tgcagttgga ttactggctg cttcaggtgc tggaacagct ataataatta 300
 agaattctgt tctccctcgg ttaaaatctt ggatacgtaa ggttgtctta gacagtgatg 360
 atgaacaatt aaagaaaact gacaacaaac caacaccgat ggaagaagct gtgcaagctg 420
 caaatcagc tgcagctgca gctgcagatg tggcaaaagc gagccaagaa atgctggctt 480
 caaaaggcga agagaggag 499

<210> 4222
 <211> 516
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220062f03d1
 <400> 4222

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ccagttcaaaa gtacaactaa tatgattatg aaacagattg tgtgacaagc ttattccaaa 120
tcatgttttt catgatagat catgcatgat tcaccttcac ttctcatcat atttgacttc 180
atgctcctct tgtatctcac tagaagtggg aaccgagctg acactgcttc cctcaactgc 240
accttcagat tccaatagtt ttgggtccat atgtacatca tcggaaccgt ctaaagaatg 300
agctactgac tgattatcag acatctgttc cttttgggcc gctggctttg gccgcctgat 360
tgcttctgca gcctccggca tagctatggn gggaggttga ggaggaaccc atacgcgttg 420
aactggctgt tggattggct gctgactgga tgcagcacca ttgggtactc cattagactc 480
attttcatta tcaatctctc taattctgac attttt 516

<210> 4223
<211> 557
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220062f04a1
<400> 4223

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cagcgtcgag atcaacaatc tcgctcgctt tgctgtagag gaacaaaaca aaagagagaa 120
ttcagttctg gagtttgtga ggggtgattag tgcaaagcag caagtgggtg ctggagtga 180
ttactacata acattggaag caaaagatgg tgagattaaa aatgagtata aagcgaaggt 240
ttgggagagg gaatcccaag agttgctaga attcaagcca acattaggtg caggaggcat 300
catcgatgtg cctggagctg ccaacagcat cgagatcgac catctcgctc gctttgctgt 360
agaggaacaa aacaaaagag agaattcggt tctggagttg gtgaggggtga ttagtgcaaa 420
gaaacaagtg gttgctggaa tgaattacta cataacattg gaagcaaaga tgggtgtgatt 480
aaaaggagta tgaagcgaag atttgggtga ggtgatgggt gaactccaaa gagtgcctaga 540
attcagccag tcaatgt 557

<210> 4224
<211> 594
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062f05a1

<400> 4224

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ttccccggct tcgaattcgg attcggtcga tcggtgggta acacacgtgt ggactggagg 180
gagactccca gagccacgt gtggaaggtc gagcttcctg gcttcacaaa cgaggacgtg 240
ctggttgagc tacaagacca gaggggtgctc caggtcagcg tggagagtgg taacttcctg 300
acgaggttta agatccccga caacggtaac ctggaacaac tcaaaaccaa catgctcac 360
gggattctcc ttgtcactgt tcccagtttc atcaaccac ttctaataagg aatgtcaggg 420
tcgttgagat tgaaggcacc gactgaacco agtttagcata ctctgtctct tccaagttgt 480
tcactctaaa ccaaacaaaa gacgctgtcg tgtctatgta tgtgtccgat ggaactgtgt 540
tctagtatta tattatggta tgtgtgccat ggaactgtgg tctagcatta tata 594

<210> 4225

<211> 550

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220062f06a1

<400> 4225

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gttatggata ccttaagcag acttagccat gatactgatt cagaagtagc tatggcagct 120
gttatctcct tgggtctgat aggtgctgga acgaacaatg ctccaattgc tggcatgctt 180
cgcaatcttt caagttatta ctacaaggat accagccttc tattctgagt gcggattgcc 240
caaggtcttg tacatttggg aaagggttta ttaacactta atccatatca ttctgatcgc 300
ttcttactgt caccgacagc acttgctgga ttaattacca tggtgcagc atgcctagac 360
atgatagcta ttgtgttggg aaaatatcac tatgttctct acttctcgt tttggcaatg 420
cagccaaaga tggtgttgac tgtggatgag aacttgaagc ctctatcagt gcctgttcgt 480
gtaggacaag ccgtagatgt tggttgacaa gcaggtcggt cgaaaacaat cactggcttt 540
cagaccact 550

<210> 4226
 <211> 543
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220062f07a1

<400> 4226

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tggtggtctg caaatgtcgc aaggctacta agttatattg cttcgtgcac aaagttcctg 180
tctgtgggga atgtatctgc tttccggagc accaaatctg cgtgggtccgg acttattccg 240
aatgggttat agatggggag tatgattggc ctccgaaatg ctgccaatgc cagtctgttt 300
tagaagaggg ggatggatct caaacaactc gactgggttg attgcatgtt atccacacaa 360
attgcttga ctcgcatatc aagagttntc ctccacatac tgccccagca ggatatgtgt 420
gtccttcatg ttctactacg atatggcctc ctaaaagtgt gaaagattca ggatcacgta 480
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tca 543
  
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<210> 4227
 <211> 604
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220062f09a1

<400> 4227

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cagtgttgac gggatcgtcg gcaccggctt agactttctta ggcagtgcac tcgatacagt 180
tactttttta gcctcctcca tctccatcca acttattagt gctaccaagg ctgatgggtg 240
gaaaggaaaa gttggaaagg ctacaaattt gagaggaaa agataacattac caaccatagg 300
agctaaggaa gaagcatacg atgctcaatt tgattgggac agtgacttcg gaattcccgg 360
  
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tgcattttat attaagaact tcatgcaaaa cgagttctac ctcaagtctt taattctcga 420
 agacattcca aaccatggaa ccattcactt catatgtaac tectgggttt acaattcana 480
 aactacaag actgatcgca ttttctttgc caacaatata tatctttcaa gcgagacacc 540
 ggctccactt gtcaagtaca gagaagaaga attgaagaat gtaagagggg atggaactgg 600
 tgag 604

<210> 4228
 <211> 565
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220062f10a1

<400> 4228
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 aacacgcatt tcgatgacgg tggtcggact cttctcact gccacgaagc tcgccggagc 120
 tctattcact ctcaccgtcg ccgccaacgc cttctcctac tcccgtttc gcaagaagaa 180
 ccttcgcggg ttccgctctc ccacgatga atcccaagac actctcgac actttaacgt 240
 cgctgaaggg gaagatgggt ttttctttgg tttggcgaca gcgccagcac atgttgagga 300
 caggcttgat gatgcttgga tccagtttgc tgagaaaaag agtgggtgaag gtggtggtga 360
 ctctgagggg aagcagagag tggatgctgt gattggttct gcttctggcg atggtggttc 420
 ccagccggcc ataacatctn cgaggagcag gaagcctctc aaggtggcga tggaggccat 480
 gatcagggga attgagaagt atatggaagt ggaagggaaa gaaagagaag aagaagcccg 540
 tcctaataat actgcttggc ataataat 565

<210> 4229
 <211> 584
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220062f11a1

<400> 4229
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gtctcatctg atgctgaagg tcatttttgt ggaagtgagg gtaagaatgt ttctgggggt 120
aattcagcct gtcaggggcc tcatggcttg ttacattcag aatcttctac agtagataat 180
ggaaaagctc ctagtatggt tgctagcacc caaaagttc caaatcccc ttggatgcct 240
tttcctttgc ttcttgatgc tatcagaaat caggttcctc ccaagggtat ggatgtaatc 300
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ctgagggttaa tagttggaga tggctctgtg agaactacaa taacaaatct tcagttcaag 420
ataccttccg gtggtgaatt gaaaggctca atcaagaaag aagtctgagg ctgtatttct 480
gtgagggtga gatctttctc cttggagtca attaattgtca actttttgct ggataaatca 540
aatgaagtt gtgatattgg tatctcttta ggcaactatc tttt 584

<210> 4230
<211> 591
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220062f12a1
<400> 4230

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atgtgtcttc ttggcatggg gcaatgcaca aaataccctt gtgccagcaa tcataacatt 120
tggtgactcg gctgtggatg ttgggaacaa tgattatctg cctacccttt tcaaggctaa 180
ctaccctcct tatggaaggg actttatcaa ccatcaaccc actgggaggt tctgcaatgg 240
gaaactagct actgatatta ctgctgaaac actggggttt aagagttatg cacctgcgta 300
ccttagccct caggcatcag ggaagaatct tcttattgga gcaaactttg cttcagctgc 360
ctctggttat gatgaaaagg ctgctattct gaatcatgcg attccattgt cccaacagtt 420
aaaatattac aaggaatacc gaggcaagct ggccaaggta gttggcagta aaaaagcagc 480
attgattatt aagaatgcac tctacatatt gaggctggc agcagtgact ttgtgctaaa 540
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<210> 4231
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062g01a1

<400> 4231

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ccatgggtaa aacaacaacg acaacaagat aaaaacgttg ggtgcttttg gttggagggg 120
gtgtgtgtgt cgaagcctca cggtggtaac aataaaagtg acgccattan cgtgctcggt 180
ggtggtgtgt gtataggtga atactggtgc ggtcgaggta atagtaaadc tattggggta 240
tgtattggtc gtacgtggtg gtaatgtcta tcgcatggtt tctgttatgg ttttcatatc 300
gcgccaattg aggttgcgtt tcgttcttgt ttgcataggt ccgttccggt ctttgcgatt 360
gcgttagtgt tttcaatctc agttatcgta gtntcaccaa ctattactag tattcttadc 420
ggatcgtgta caacaaaadc gcgtagcgcg gtg 453

<210> 4232
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062g01d1

<400> 4232

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gggggggggg gcgttaaaaa aagcgtgttg gttagactaa agcggagcga taagaattaa 120
ggtgttacgt tacacgttac ttgtggaaag tgatcttaat aaaagtgggt aaaggtggcc 180
tcattaagtc acacaagttc gtattcctct ccacaactca acgggttcct caggtaaaat 240
tgcgaaacac cacaccccgga aataaagaag aataaggtag acagtgtagg tgggtggtgg 300
agtggggcat agcaggcaaa catcatgtcc gtgtccggtc aatgtccagt ggtgttagcg 360
gcacgtcatc aaccatcaag tagcgtancg cccatgtcgg gtatttatgt cttgggtcatc 420
ttattcaggt gtatactcac ggtggt 446

<210> 4233
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062g02a1

<400> 4233

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tgccaattat ggacacagct gacattccat ggtgcagctt aggtgaccca accatgcaca 120
aggttatata taatcatgcy tcaaagatta tacgatattc acatttaaca gattggtggc 180
ttggaaacac cacaagtgc cttgaacctg gtgctatata tttgtctcca aagatcctac 240
caattggtcc actcataggg agtggtaatg acattagatc attggggcaa ttctgggaag 300
aagacgtctc ttgcttgacc tggcttgatc aacaaccacc ttgttctgtc atatacgttg 360
cctttggtag ctctactatt tttgaccctc atcaactcaa ggaactagct cttggacttg 420
acctcacaaa caggcctttt ctgtgggttg ttcgtgagga tgccagtga agcaccaaaa 480
tcacataccc agatgaattc caaggcactt gtggtaaaat tggtaaatgg gcacc 535

<210> 4234

<211> 508

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220062g02d1

<400> 4234

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caggaacatc ataaacattg ttcacaacat cagagcatca acaaatacat ttttattcct 120
tgagccactc cacaaacttg ttaaaattct cataggattg tcccccttct gcaatgttac 180
ttagaaccat ttccttcagt ttttgagacc tcccccttat gttctcatct ccaaggattt 240
ggtctacttt cttctttatc tccaacgtg atatcagccc tttgtcatcc aaatcgaatc 300
ccaaaccac cttccacata tcacaaatgt aagccttgct aactaattgg tcagtataat 360
atggccaaca caagaaaggt accccattgg acacaccttc caaggtagaa ttccaaccac 420
agtgactaat aaaacaaggt attgcagggt ggcttaaac cttttgttga ggtgcccatt 480
taacaattnt accacatgtg ccttgga 508

<210> 4235

<211> 509

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062g03a1

<400> 4235

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gtcttggccc tcgattttgc cctgtaaaac taatcccagt cacaacagaa ataatcaatg 120
gcaccgaaac agaccaaggc tgagaagaag atcgcttacg atgcgaagct gtgcgaccta 180
atggaggagt acggccaaat cctcgttgta aactccgaca acgtgggatc gaaccagctc 240
cagaacattc gcaaggggtct ccgcgggcgac tctgttggtc tcatggggaa gaacaccatg 300
atgaagcgct ctgtcaggat gcacgctgag aaaaccggaa acaatgccta tctcaacctt 360
atccccctcc ttgtcggcaa tgtgggattg attttcacca aggggtgacct gaaggaggctc 420
agtgaggatg ttgctaagta caaggttgga gtcctctgctc gtgttggttt ggatgctcca 480
agtgatgtcg ttgctcctcc tggcacaca 509

<210> 4236
<211> 524
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220062g03d1

<400> 4236

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taaaatagca cctaaaatga aagacaaaca acttcatcaa ttctaacaaa gcaaactcaa 120
caaaagtatt acttaattta gtcaaacaga ctgaaaccca tgtcatcgtc agactcttca 180
gctggttctt ctttcttttc ctctccttg gctgcagccg ctggagcacc agatgcagca 240
gcaggagcag caacggcggc aacggcaaat ttacttgggt cttcagata ctcttgacc 300
ttgtctgcct ccgggaaaga ataactgtgc tcaaccgcaa cagcaagaac attcttgtag 360
gcattgacaa acatgtgtgg tgctgcagca agtgttggat atgaaatagc caatgaaagt 420
gaagtaacca ttgagacacc agcagcaaac ttccaatgag gtcacctca gntagatcaa 480
gaacctcagg gctgaacact gaaccattat cataaacaga gaga 524

<210> 4237
 <211> 627
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220062g04a1

 <400> 4237

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 ttcatttcga aatcttactc ggcttcaaga gttggagttg gatcatggac ccgaaagtgc 120
 tgatcagtta atggactttg atgctgccac cctcatttcg aacatctgca tgatgccaga 180
 actatatgat attagtgtc gccgtttgca atggaggcta ttgccagacg atgctttgaa 240
 attgacctca gtcgtgtgtt caagcgttca ttctctcact ttggaactgt cagatgagct 300
 tcttcgcta tttctctcat ggtttgtaaa tgtggagaat ttacggctag aaggaggtaa 360
 atgcacagtc attcccgaat gcatcaaaga atgccgcttt ttatctatcc ttattttgag 420
 tggttgcat cgtcttcaag aaattagagg gattccttca aacttgaaa gattcgccgc 480
 aacagaatcc ccagactttg acttctcaag cataagcatg ttgctgaatc atgaactgca 540
 tgaggctgga cacttgact ttagtttgcc aatattaaag attccagaat gggttgagt 600
 ccagagtccg ggaccatcaa ttttttc 627

<210> 4238
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220062g05a1

<400> 4238

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 cacatgctgt tgcaatatgt aacattgact caagtcaact gaacttggtg cgtgctgcag 120
 ttactgggtca aaacctcca ccactgatg agaaatgctg tgcagttatt cgccaggcca 180
 atttgcggtg cctctgcagt tacaagtcta tctaccttc atttgaatt aacccccaaa 240
 atgctttggc cttgcctgct aaatgtggtc tacaattgcc tctaattgt tgagtgtgt 300
 gaagcagtta acgaaggcca agttcattac aagcacctta attagtagtc ttcaattgct 360

ttcaggtggt ttactaacac tgaagataaa ttttaagaca ggatttgatg cccctcaaat 420
aacggtgcag ttgggttttaa tcagtgtctt gtgtccaaaa gtttgtgagt agatgtgtag 480
agtattagtg tttgatgtac aggaatactt ntgatctgaa ctttntttcc ttcattgtcta 540
tgtctacatt ataatatggt taataaagtt tctg 574

<210> 4239
<211> 54
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062g06a1

<400> 4239

attgttgtgt gcatattttg atatagtttg atacctcctt atatctaagt agct 54

<210> 4240
<211> 571
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062g07a1

<400> 4240

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gccacagctg gtagctttta ccaagacttt gaaataacgt ggggtggtga gcgtgccaaa 120
atctatgaga atggaaacct tctcacactc tcccttgaca gagcctctgg ctctggcttt 180
cgttccaaaa aagagtactt gttcggaaaa attgacatgc agctcaagct tgtgcttggt 240
aactctgctg gaacagtaac tgcctattat ttatcttctc tggggcctac tcatgacgaa 300
atagactttg agtttttggg taacttgagt ggtgatcctt acactctcca cacgaacgta 360
ttcagccaag ggaaaggga cagagaacaa cagttccatc tatggttcga cccaccaag 420
gacttcaca catactccgt ccaatggaat cctgcaagca tcatattctc tgtggacggg 480
acccaatag ggagttcaag aatttgaga caaaaggggt tccattccca aagagccaac 540
ccatgagaat atactctagt ctttgaacg c 571

<210> 4241
<211> 331

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220062g08a1

 <400> 4241

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 acatgtcatc acacatcact gagatcgcta catatgcata gagcgattgg atgtgacgag 180
 agaatcaagt tctattgcta gagacgtccc aatgagatgc tagtcgggcg tgatacgcaa 240
 aacatatcac tatcaataac cggctattgt aacacatgtc tgaggcctac ggatgaccaa 300
 atgacaccat tgctcactca gggctaggat g 331

<210> 4242
 <211> 608
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220062g09a1

 <400> 4242

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 tagtggctgg tcggatttgt gctctctgag ggtgctcaat ttggcgaga attatgttgc 180
 cgggtgttgtt ccagagagtt tggggatgtg taggaattta agtttcttgg acttgagtgc 240
 taacattttg gtggggatgc tgccttcatt gcagcttcgg gttccttgta tgatgtactt 300
 caatatcagc aggaataata tatctggcac tcttcaaggg tttaggaatg aaagctgtgg 360
 tgcaagtgca ctggatgctt cattcctaga gttgaatggt tttaatgtct ggaggtttca 420
 aaagaatgct ctcatgggat ctggttttga agagaccaac actgttggtg ttagccatga 480
 tttcagttgg aacagtttca gtggatcctt acctttgttt tctcttggag ataatctgcc 540
 tgggtcatat cgtaatgtct cctacactct gtctctcaat aataacaagt tcaatggaac 600
 tctactga 608

<210> 4243
 <211> 556

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062g10a1

<400> 4243

caattctcag atttgtgacc tgctctcaga aaaaaaaaaa atcaaaaaaac aaaactctaa 60
gtgggtcgggt ttttctgctt aaaatttctg ttttggctctg aaatttcttt gcttttggtc 120
gtgccagtgc tctatgagat agaatctgcg cgagaaagcg acaccaatcc ttgcaataga 180
gatgggtgggt accagaaata ttgtgtagtt actgctatct attacttttg ttgctccaat 240
tgagctctac actgatcggt ttggcacctt caagtacccc tttgctgagc aagagtttat 300
tgatgctgta actgcttttg cgagtgcagc tgactctggc catctgaatc tcctgccgca 360
ggatacttct acgggtcttta aggaaccaat tgggcttgaa tatacggagg acgctgcaga 420
cacaaagaat ttgcttcatg gcttgcactt tgccaaacca ggggagcatg tatctgccag 480
ggtattgtca gctacgaagg acgaaggcca aaccaaaggg gagaacccca tcaaactggc 540
gacagatgga tttaat 556

<210> 4244
<211> 568
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062g11a1

<400> 4244

gcgaagagaa tggctcccaa gggtttaatc tttttggctg tggttatgctt ctcagcactg 60
tcactgagtc gttgtcttgc ggaggataat ggacttggtta tgaacttcta caaggaatca 120
tgccctcagg ctgaagacat catcaaagaa caagtcaagc ttctctacaa gcgccacaag 180
aacactgctt tctcctggct cagaaacatc ttccatgact gtgctgttca gagttgtgat 240
gcttcactgt tgctggactc cacaagaagg agcttgtctg agaaggaaac agatagaagc 300
tatgggttga gaaatttcag gtacattgag accatcaaag aagctttgga aagggaatgc 360
ccaggagttg tttcctgtgc tgatatcctc gttctctctg ccagagatgg cattgtttcg 420
ctaggagggtc cccatatccc tcttaaaaca ggaagaaggg atggtagaag gagcagagcc 480
gatgtggtag agcagttcct cccagaccac aatgaatcca tttctgcagt tcttgacaag 540

tttggtgccc tggaattgac acccccgg

568

<210> 4245
<211> 624
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062g12a1

<400> 4245

aacgaccctg caaaaccacc tgcaaaggca caagtgggtg gttggccacc agttaggtca 60
tttagaaaga acatagttca aaggaacaag aatgaagagg aagcagcttt cgtgaagggtg 120
agcatggatg gtgcaccgta tctacgaaag gtggacataa agttgtacaa gagctaccag 180
gagctgtcag atgcgctggc taagatgttc agttccttca cgattgaaaa atgtgggtcc 240
caagggatga aggactttat gaatgagacc aaattgatag accttttgaa cggctctgat 300
tatgtaccca cttatcaaga caaggacgga gactggatgc tcgtcgggtga cgtgccctgg 360
gaaatgttcg ttgaatcatg ccagcgcctt cgcataatga aaggttctga ggctatcggc 420
cttgaccaa gagccgtgga aaagtgaag aacagaagct gaagtgattt taggggttcg 480
ccacaacaat cggcttggtt gttcatctgt gtcacaagga agcaaagtga ctcgagcaag 540
atcgagtctc ttttaggaat aagagtttaa ttttaataat aatattatgc gtctttgaaa 600
tttcttatat gtgattatac gaat 624

<210> 4246
<211> 525
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062h01a1

<400> 4246

aggttgcact gagcatcgtc tagctatctc gatcgaactg tccaagggtc tgtcaccgct 60
atgcaagaga agcacatgag gaacgataag ccgagttttg aagtaagggt agggagggag 120
ggagcggggg ggcgaggcgt ggtgcggtgt gtggggagtg gatgaggcaa ccggttgccg 180
cgtaagccgt agtaaaccag ggcagagccg agtaaaccgg cgtaatatgt gcaccatggg 240
aaaatagcga gcgcgatttg aagggaaga gcggggtgcg caaacagaaa caatatgttg 300

tagataggat ggggtgtaag ggcgaggaac aagagattgt gcgagacggg atgatgagaa 360
 gggacaaggt tgatgcggag caagcgggga acgcgaccac ggagccatat ggaaagaggg 420
 agccggaagg ggcgtagtca gggtaaagta agaccgacaa ggaggagtaa ggcgtactga 480
 taaaggttgg cgaggggggaa caaatagtag gcaaagggca gcggg. 525

<210> 4247
 <211> 483
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062h01d1

<400> 4247

tcgattcggg tccaggaagg tttcccgtca tcaactgtatg acgtcctcct tctttggggg 60
 gggggggggg gggccaaacc aaccaacaaa agaggcaaag gaaacgggta taggagaaac 120
 cgcatctaac gggtacagac ccaaaggaaa cgggggtataa gaagtggtaa cgccggaata 180
 atagggcaga ccataagcga aataggtgag gaaagacagg gatagccatt gggtagagct 240
 taaagtaaca agtggatcca acaaggcagc accagataat ccgccgcgtg tgatgacgct 300
 tgcagcaagt acaatacgcc aaccgcgtag gttacctata cgagggattg tgagaagtaa 360
 aattgtgtta tgcgtaatag ggataaacgt agtaacgtcg caaaagttgg ttaaggcaac 420
 acgcgggcta agtacggtaa gacgtgcggg atagtgtgga aactaggtgt atgtagaagg 480
 cat 483

<210> 4248
 <211> 265
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062h02a1

<400> 4248

gcagattctg ccatgaatgg tgcatagata taggagcctc tgctgtataa attggatcca 60
 ctgcaaagat tgctgctgat ggaaaagctg caaccaacct tcaatttgaa ggatttgttg 120
 tctgaaacat tcacctgtta attcaaatta gtacgccccca atttgtacct agtgaaattg 180
 aaactggggt gtgcatttca acattttgca gctcagattc catgtcatgg ttaaattatc 240

tatacacccat cagcatgtgc catag

265

<210> 4249

<211> 264

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220062h02d1

<400> 4249

ctatggcaca tgctgatggg gtatagataa tttaacccatg acatggaatc tgagctgcaa 60

aatgttgaaa tgcacaaccc agtttcaatt tcactagtag aaattggggc gtactaattt 120

gaattaacag gtgaatgttt cagacaacaa atccttcaaa ttgaagggtg gttgcagctt 180

ttccatcagc agcaatcttt gcaggggatc caatttatac agcagagggt cctatatcta 240

tgcaccattc atggcagaat ctgc 264

<210> 4250

<211> 520

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220062h03a1

<400> 4250

gggatggcgg gcatgtctgg atgtagttgc cgttggcagt gggcggaggc gaaatccatg 60

ggagtgggct gttgggtccc ttcctcaact accaaaagga gtttccggcc tgtgattgtt 120

tctgtttctg ctatctccga taataactct cactcttaca ctagcagcgg aagaaagcta 180

gaagaagaag gcatcaaagg gtcaggaact accgtcagag atcgcagggt gcttagaatt 240

cgccaagaga aacgacagcg ggaatacgac ctccctaaca actaccctgc ttgggcaaaa 300

gtcctggaaa acgcttgcaa agacgatgct gaactccgtg ccgttctcgg agatagcatt 360

ggcaaccccg aactcatgag gaaacgagtc gaagataggg tgagaaagaa gggtagagac 420

tttcaaaagt ctaaaacagg atccgtcctt gctatcaagt caccttcaga gacttcaatc 480

cacttgattc atatatctgg tttgaattgt tggatcacca 520

<210> 4251

<211> 513

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220062h03d1

 <400> 4251

 ataaataggg aactgcaaag ccatttattt atttttgaaa tacttgtaca aatctttgta 60
 acaccacgca cgtcgcaata caagttaatg aagaatatgc atgttttcaa ccacagtcaa 120
 gtcctttata ttcttgccat ttacttttga tttcgattta taggtttctg ttctatttat 180
 gcaattttta ttccttccta cttttttttt ctccaagtga caacaatacg aaataaaaagg 240
 aatggccatc gcccaaaaag tttacctttt cgtatgcaca aatgcactat acaacccttt 300
 ttgaacaaaa tggaaagtac aatgcatagc tgcaacaagt cccagtttaa atcttgaagt 360
 atttgtaacc atactcaggg ctgtcatcc cctcttccca atcacccatg cggcgaccac 420
 caaaaacaat ttgttgatt ccagatatt ccgagctcag gacagttagg cagttgagga 480
 gcacatcaat tgcaaaataa tcagatgtac cca 513

<210> 4252
 <211> 536
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220062h04a1

 <400> 4252

 ctccaaagaa agaacacatc acaatggagt acggaagggt aggaccctct gatcctggtg 60
 gtcctcgcg cctcaaccct ccgagatctt ccgggaggaa aaacattgtg tttctgtcac 120
 tctttgctgt cttattaata gccgcgtccg ctgttactgc agttgccgtc cgctctcgca 180
 ccaaaaatac cggaggggac ggaactagtc tcggcaagtt cacacaggcc atttcacgca 240
 cgtgcagcaa gacacgcttt aagatgttgt gcatgaaatc attactggac ttcccgggat 300
 ctcaaggagc atccgagaag gacctcgtcc acatttcctt caacgtcacg ctgcagcact 360
 tctccaaggc gctctactct tccgccacca tctcctacac cgccatggat ccccgctcc 420
 gcgcccgtcta ccacgactgc ctcgagctcc tcgacgactt cgtcgacgcg ctcgcccgtc 480
 ccctcaacac agtcttcgtc ggccgctct gctccgcaa cgacgacgtg ctgacg 536

<210> 4253
<211> 577
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062h05a1

<400> 4253

acagtcagac tgcataatc gatatagcca ccaccactac ccagcctccc tctaataatct 60
gttttttccct tctgttggtg cttctagcac actttcattt gggcataagc caacttgagc 120
tgaattacta ctctaaaagc tgcccaaaag ctgaagagat catcaaggaa caagtcacac 180
aactatataa caagcatgga aacactgccg tttcgtgggt cagaaatctc ttacacgatt 240
gcgtgggttaa ggtgccagat ttcttgtttc aaattcatat ataaaccaag atatatgcat 300
cataattagt taacaacaat gcatgaaaca gttaaaataa ttgatttgat gattctcatg 360
cagtcatgcg atgcatcatt actgttagcg acggtgagcg atgtagtgtc ggagcagaca 420
tcggatagaa gttttgggat gagaaacttc aagtacgtaa acactatnca agcagcgggt 480
gagaaagaat gcccttcac agtgtcatgc gctgacattg ttgctctttc tgccagagat 540
gccattgctt tgggtgggagg accaagcatt gaaatga 577

<210> 4254
<211> 593
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062h06a1

<400> 4254

agttaatgag gaatattgca agcacctaag aggagtggta gacaaattgt tcaaaagtat 60
gtcggtaggg ttggggcttg aagagaatga gctaaaggag ggtgcaaagc aagatgacat 120
gcattatctt ttaaaaatca attattacc accttgcca tgctctgac tggctctggg 180
tgtgccacca cacacagaca tgctctacct cacaattctg gtgcctaacg aggtgcaggg 240
ccttcaagca tgtagggatg gccattggta cgatgttaag tatgtcccca atgcctcgt 300
tattcacatt ggcgaccaa tggaggtaca tatcttgctt agatgctata gttatatttg 360
gataaattta aattgataaa agtatgaatt aaaatcagct ctcacattaa gagagtttct 420

ataatttaac ttatgtataa attaatttaa atttatggga gaaatctatt tttggaaaaa 480
 acatattttt ttagtttttg gttatcaaag gtaattaacg tctctgtatt tctatgttga 540
 tgaacttgat ttataaactt ttggcccttt tctcttagat tcatgatgta ttt 593

<210> 4255
 <211> 403
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062h07a1

<400> 4255

gccaaagcttg tcttcagttt ctctttgtcg ctagtaacag aatattacaa agtaacggct 60
 ttctgagtgg agcgcttgat ttcgtttggg gggccaactt caagtttcga ttttgttcat 120
 ttttctctcg tcgattgaga aggcctcagtt gcagagacag tgggggtggg acggttatgg 180
 ctttttgccc aattttttgt tgccgaaatg gttcggatcg caaaggacga gggaagaaac 240
 aaccttcatg gcgggtgttt cctttgaagg aattacactc cgctactaat aatttcaact 300
 atgataacat acttgcaaaa gggggattcc gcagtgttta cttggggcca gctctgggat 360
 gggatccaaa ttgcatctaa tagattgaag tttttagcaa cat 403

<210> 4256
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220062h08a1

<400> 4256

tcgttttatt atcataatta ttgttcttgt tgtttttgaa tcattcccat ttcccagtct 60
 ttctttatgg aagaagttcc cgacacggcg gcgaaccggg ccgatccggg gttcagggcg 120
 gagatcgaca cttcggcgcc gttcgaatcg gtgaggaag ccgtcacgag attcggcggc 180
 gttgggtatt ggaaacccat tctgaacggg cttagtaaca agcattttgc tgctcctgag 240
 ccgcatcacg cagaagagct tgaccctgaa aaactggagg agcaagctgc tgtattggag 300
 aaagacctga tcctgaaaga aagggaaca cttgatgtct taaaagagtt ggaaagtacc 360
 aaaaggcttg tggagaattt gaaatcaaag gtacaaaaag aagaatctga agcatatttg 420

aattttcaga cgagtgtgtg cgaaaatata tcgtctgtta aggaggatga gagagaagat 480
aaggaaaacc gagtgagtaa tgttgt 506

<210> 4257
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062h09a1

<400> 4257

tattgaatga ttttcctata gatctagagc agtatgatag aagagaacag ctgaaaaaga 60
gtgggtctggg aaagggtcatt atgtttttat caaagtctga tgaagaaatc agtgcaaata 120
ggaaactagc caaggagctg gttgataagt ggagccggcc tatatttaat aagagtaccc 180
ggtttgaaga catgagaaat gtggaggatg atagggttcc ttatcggagg ccatcagtta 240
aaaagccggc aaataaatct gcaggaatgg aatctaggga cagtgatctt gatttggaac 300
tttcacagcc taggtctgga cagtcctctt ctaggcagca tgcataagg ccggaagcaa 360
cacctttgga tnttgtggtc cgtcctcagt ctaaaattga tccagaagaa attagagcac 420
gagcaaaaaca agctgcacaa gatcagcagc gtatgaagat gaataagaaa ttgca 475

<210> 4258
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062h10a1

<400> 4258

gcaaacagct gttagacttg aaagaggatc accaaaacat aaaggaagaa agttgcaaaa 60
cctttgaaga gaaaaattcc ttgatgaaaa gatthttggga cctgggtgaa gagaaaagta 120
aattggaaga agaaatctgc attatgattc acgataccat agcacaatcc aatctttctc 180
tgctttacca gaacattgtc cttgaaaaac tccaggcact taaagagcta agcaaagatc 240
ttgatagact ttgttcagta aatactgacc ttgaggagaa actaaaaata atgatgggca 300
aattggaaga tgtacaaatg gaaaactcag atcttaaaga gtccttgata gtgtcaagca 360

atgaactaaa attagttcaa tccgttaatg atcaattaaa ttgtcagatt aggaatggaa 420
 aggaattggt gtctcaaaaag gaaaatgaga ttttgggaagc agcanagatg tttagcactt 480
 tacatgatga gaaaacagaa ttgcaaagat tgggtggaaga tctgaagagc aagtatgatg 540
 gagccagggt gatactttga gaccaagcta gtcaaa 576

<210> 4259
 <211> 573
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220062h12a1

<400> 4259

ctcgtgagtt tagcagagtg cactcacctc acctaggggt ttgcatcagt tttcaaccac 60
 tatagcagaa tggaacaaaa tgcgtgagag gaattgtcga aaattgcttc ggatttcaag 120
 tgcgagaaga aggttctcga aacagttgat gaatcaatcg tatgccccac tccacagaag 180
 aacgaggaac ccttaatcgt taaattcaga gagggacaaa ccaaccttcc tgaaaaatac 240
 tctgcacttg tagatttgtt tggtcacaca agctgttcac tcaggttgct gcgtctgtgt 300
 aaaaagtctc caacttttca aaatgtttgc cgacaggttg aagttctttc gaagagggaa 360
 ttctcccatg cccatcttgc gcagatgaag tatatactcc ctaaaagtgt gtgtatagat 420
 aaggtgcttg ttcattgataa gaaaagcttg tgtatggtgc ctgatatgaa gatcacgttg 480
 agatttgagg ttgtgaaaga ttgctctggc gaatctgatg atctggctct tcgacgatat 540
 tttaaatcta agctgaatga tntctttgat atg 573

<210> 4260
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063a01a1

<400> 4260

gaggtagcac tgagcatctt ctagctatct cgatcgaact gtccaaggct ctgtcaccac 60
 caatggtcaa cctactagta cctacaatgg ctgtcgtaaa aaaagcaaca aatgctaaca 120
 tcatggctgc cgccgccaaa gcacatacca cataattcgg ttgtggcacc atagtgtac 180

aatgccgccg ttgataacga atagataagc gaagttggta ttttggttta caagagaagc 240
cagcaaaggt actagacgat gtaccaacca ggccaacgta cgggtgtggc attgagaaag 300
ccacgtagcc gattggggta gcgccatggg taggtcaatc ggggttactt cgtacgatat 360
taatctcaag cgtgagagta caaggagggg gaagcgggtc cgcatttttg gtactttgta 420
gcaggtaa at gtaagcaacg gttaaccagt gagagagggc aaccaacgtg gtaggttctg 480

<210> 4261
<211> 476
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063a01d1

<400> 4261

aagaaacaaa attaagaagt cattaaatga gtaaagcacg taaatttttt aaggccatac 60
attggatgca agaattgcta tcaagtggct gaactataat ataaaaagaa aaaccctacc 120
ttacaatcat gagactactc ctacaaacgc aaaagctgct accgcaggca acaacatata 180
tagagtaact gaactaaacc ataaaccagt taagaaaaag agcaaaaatc tatcttaact 240
tgggccgctt tgtcatgcta ctacttagac cggctcctct tgacttacca aagctttttg 300
cctttcttct tttcctatct tcttcaactgt cagactcatt ccctttctcc cgatctgcat 360
tgcttgcttc cctctccagt tcttcccatg tctttccctt ctcttctct gaatectct 420
cggaatcttt ctgcgcatca tcctctgact caacaagtga ttcactatca gaagct 476

<210> 4262
<211> 531
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063a02a1

<400> 4262

ccacagtctg ctgcgcgtga gtaagggcga gaggggtttt gggcgcaaac cgactcaagg 60
gactgaccat acgcgggagc ggggctcgcg ggctaataagg ctcgatatagc tggtagatgc 120
atctggacgt gacctcggac tatgtcctcg tatttaaacc gaccagcgac gagaacacac 180
tccaacacta accgtacgat gtccactgcy tcgcgcgcac caccttatac cgtctataca 240

tgtgactcga ctatgtccta gaaggcctca tcaagatggc agatctcact attaattctgg 300
 ctgccatttg cactcccgcg gattacaaca cccgccctat cggcaccatt tacagcaatt 360
 gcatcgacgc gctcccagtg gtgaaatact gttccgagaa caacaagcgc cttatccatt 420
 tctctacttg cgaagtgtac ggaaagacga ttggagcctt tctccctaga gatagtcctc 480
 ttcgcaagga accggcatac tatgtttctta acgaagacga gtctttcttgc a 531

<210> 4263
 <211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220063a03a1

<400> 4263

caaacactcc acttccccaa aaagtaccaa ccaacctcca caaccacaac cacaacaaca 60
 acaaccactc cagcaagaga aaccaaacca gtaatcgctt ctccctccga aacaaaacac 120
 ccattacctc aaagttggaa ctttctccag aaagcagcgg cttcagcctt agacatggtc 180
 gaaactgcct tagtctocca cgaacgcaaa caccactcc caaaaaccgc cgaccacgt 240
 gtccaaatcg ctggcaactt cgccccctg cgggagcacc cgggcgagca ctcccttccg 300
 gtggccggaa aaatccccaa atgcattgag ggcgtctacg tccgcaacgg cgcgaaacccg 360
 ctctacgagc ccgtcgtgg gcaccacttc ttcgacggag acggcatggg ccacgccgtc 420
 aaattccact ccggcgccgn cagctacgcc tgccgcttca ccgaaaccca gcgcttagcc 480
 caagaaaaaa ccctcgggcg 500

<210> 4264
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063a03d1

<400> 4264

acatgcacat caagcgaaag aaaaacagag accagctgag cttcattgct aactacacc 60
 caaaagctac aagctggtcc ccaaacctc tcaactccaa agtgaaaaaa atgaagaaaa 120

gtaaaaatct gcaacagaaa ctgaagagga gtagattccg ggggcgtatc tgcaagcatc 180
ccacagttaa acctctctc agaaagtga aaactcactt atttaccgtc accaattcaa 240
gcttgtttcc tcaaatacatt tgaatgaata aaagtgccgt gaaaccata aggaactcta 300
gaaggaagct taacggaagc ctcaagcttc aaagttttgg cattcacaat ctgcagctcc 360
gatttccatt ccttctcatc atgcacgaat gcgagaatat agccatcatc ttcatacccg 420
tcaacaccat ttggaagaaa cagaggctcc ccaccgaacc tctcttcccc atacatgtac 480
ttgttcactt cccactgaa caaatcaact ttagcg 516

<210> 4265
<211> 513
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220063a04a1
<400> 4265

ctttcttctt agttttcccc tcggtgttga gctacttttc acagccatgt tgccaagaag 60
tagaaccctt cctagcagaa tccaccaagg aattatagaa gagaggcata atgtcaggca 120
ctacttacia gttgaagtgc gaccaataa tacccaaacy gagaccgaag cgatgaatat 180
ccagtctaac tattccaagt gcttcgatga tgatggtcgc ttgaagagaa caggaaatt 240
ttggatggca actgctcata tcatcactgc tgtgataggc tcaggagtcc tttcactagc 300
atgggcgggt gctcagcttg gttgggttgc tggacctatt gtcatgtttc tctttgccgt 360
cgtcaatctc tacactttca acctattaac acagtgttac aggaccggtg actccgttac 420
tggacacaga aattacacct acatggaggc agtcaactcc atcttgggag gaaaaaagg 480
caagttatgt ggccatcatc aatatatcaa tct 513

<210> 4266
<211> 470
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220063a04d1
<400> 4266

gactaaagaa ataacacgtt caaagacttt tattccttgt aaaataacac acatatcaca 60

gactgtatac gtccaaatct gaggtatatt atgtccaatt gtcacttttt tcttcagatc 120
aagttgctct aacagcagca ggcatggaac gtatatactt taatttcaca aactaactta 180
tcattaggtt tgtataaaaa tatcatatgt gcaaacactt ctagctatctt cttacggcct 240
tgatttaata actaggttta aatggcttgt aagtcttgag gtccaaaacc acccctgcc 300
tggaaccaac tgcagttaac aatgaaatga tgaggcaact ggcactaagt aactgaagtc 360
caagccagcg actggtccat cgtccaatct tcttttgca aatatacatg tcaataggga 420
aataaactgt caagggccag aacccaaaag cgccaagtat tccaaccaca 470

<210> 4267
<211> 613
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063a05a1

<400> 4267

caagtactac aaggaagaa gaacttagct acaagctaag gaaggatcaa agagaatggc 60
tcaagcaatg gcatcaatga ctagcttacg tggttcctct caggctgtgt tggaaggtag 120
ccttggtccc acacgcttga atgtggggag tggaagcagg gtggcctcag tcacacgtgc 180
agggttcaca gttagagcac agcaacaaca agtgaatggt ggtgaggtac aaagtagccg 240
tagggcagtg ctttcacttg ttgctgctgg tttgaccact ggctcttttg ttcaagctgt 300
gcttgctgat gccaaaccta tcaaagttgg accacctccc ccaccttctg gcggattacc 360
tggaacattg aactcagatg aaccaagaga ccttaagctg ccattgaaag ataggttctt 420
ccttcaacca ttgtctccaa ctgatgctgc acaaagggca aaggaatcag ccaaggaaat 480
tgttggcggt aagaagttga ttgacaagaa tgctcggcca tatgttcaga atgatctgcg 540
tctcaaggcc gagtatctgc gctatgatct cacactgtca ttgctgcaaa gcctaggatg 600
agaagaatca ctc 613

<210> 4268
<211> 292
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063a05d1

<400> 4268

gttattaatg ttactaaatt aagtgtttcg attttatgtg cgttacttgt ttatcgtgac 60
tgctagaaaa taacccccta aaccaagggg gccaaagaca gcgagcaaaa aaggggccgt 120
agaaacacag cactaaagcg gaaccggaaa gcaaggagac ccagctgcac aaccaagggtg 180
gggaggggca agacgaaaaa gacgaagcgc ccctgaggcg gacttttgat cccccgggg 240
gggcgcaaaa tgggcgggga tggccccaag gggcatatgc cgggacatgg ca 292

<210> 4269

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063a06a1

<400> 4269

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ggttaaattg gtgtagtggt gtaagatggg aggaggattt agagcgcttc acttagttag 120
gccattttct tcgtttcttc ctgaagttca aactgctgac aggaaagtgc catttagaga 180
gaaggtcata tacactgtga tctctctttt cattttcctg gtttgtagtc agctccctct 240
atatgggata cactcaacaa cagggtgctga tccattctat tggatgcgtg ttattctcgc 300
ttcaaaccgt ggaactgtca tggaacttgg aatcactccg attgtgactt ctgggctagt 360
aatgcaactt ctggctgggt caaagatcat tgaagtggac aacaatgtac gagaggatcg 420
agccctgtta aacggagcac agaagctact tggatatttg atagctgctg gtgaggcagt 480
tgcctatggt ccttcgggga tgtat 505

<210> 4270

<211> 551

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063a06d1

<400> 4270

agattcaatc caatgataaa ctcaagtata ttttgaggaa acccaaaaat gttaacgatg 60
tactacatac ttcctcagtt gaaaggggaa aaagaagtaa aaaaaatgac aacaaactag 120

actatgtcct cccttacgat gttaaagcag ctacaagtat aacgatccct caaacaaggg 180
gtgtgggaga gctcattggc agaacttaga aaccaaagaa gccaaagctcg ctagctctct 240
ccttctcaaa tgtctcaaag tactgataga tgatgggttac tgcaagcaat attcctgttc 300
ctgaaccgat ggcccccatg aaatctgccac aactgtcag ggcaccaata cagatgcctc 360
caaatgctgc ggcagtggga atgtatcgat tcagctcttt ctgcaagttt gactcacggt 420
gtccgggcat taccatttgt tgatccttca gctgcttggc aacatctcta gcagatgaac 480
cagagacttc aatccatgtc tttgagaaca aggcacatgc tgaaagcata tacacaagat 540
agaacagtgc a 551

<210> 4271
<211> 393
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220063a07a1
<400> 4271

tagcaatcac taagatcagt ggccgaggag gcttgaaatg gatcataact ggtttgtcca 60
taacaacact tcctaacact ttgattcttg gaatccctct cgtgaaggct atgtataaga 120
gtgaagcagt tgttctcctg gcacagatta ttttcttgca gagcatgatt tgggtacaatt 180
tgttgttgct cctttatgaa cttgatgctg tcaagaccag gcctactgca gctgcatcat 240
catcacaagg atcaggagaa acagacacag gtcgtgaagt acaatcaaaa ggagaagaag 300
acgcagaacc tagaataaaa aggaagagga aggtcttgct cattcttgtc acagcgagaa 360
agacgctaata tataaaatcc tatacatatg caa 393

<210> 4272
<211> 560
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063a07d1
<400> 4272

atagacaaat taattaagta gtattaatta gttgagtgat cacatgtttt ctaattacaa 60
tgaatcaata atgcagtaaa ttacaacta ttataaatt gttattttac ggcaatgtaa 120

tgctgttatt ctgatgtcc ctatctagca tatatttaac atttgctctt caaattgcta 180
 ataggaagta gaaggccaat tccaccggca aggcaatgag cattcctaac aagatcgag 240
 tgcttaaaac ggctggatgg acattatact ctttggcaaa aaaaaagga acaattcctt 300
 ggggtagagc tgcctgaaca attgccactt taaacaatgt gtctcttaac ccaatcacia 360
 aggaagccac agccatcagg gtaggtccaa gcacaacttt cagtcctatt gccaccattg 420
 ccatccttgg ccacatgct atgatgcttg actgtgatgc cataaacaga cctaagctga 480
 acatggccat gcctagacct ncattggaca atatttcgat tgactgacta acaacttcag 540
 gcatatgtaa tccccaccta 560

<210> 4273
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063a08a1
 <400> 4273

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 tacctcttac ctatctcgct acctcacgta atcgttcacc gttcaccttt ttctctctcca 120
 atcgcaacca aacttctctc tctccctctc tccctctctc tctctcatgt tcttgtagcg 180
 gaaccgttct tgcttctcgg agaacatggc ctccatctcc tccgccgaac tcaattacct 240
 cgtttatcgc taccttcaag aatcagggtt cacgcatgct gcttttactt ttgggttatga 300
 agctgggtatt aaaaaatgct ccattgatgg aaatttggtg ccgtcagggt ctcttgctac 360
 atttattcag aagggtctac agtactttga gatggaagcc aacttgagta attgtgatgc 420
 agacctggaa gatgatTTTT cttcttaca accttggat cttatcacga aagatgtgca 480
 tgaactt 487

<210> 4274
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063a08d1
 <400> 4274

attaagaatg cactcctaca aactactttt tactaatgtt atagcaaatt acaacgggat 60
 ccacgaacaa tgagttatac ctacaactat gggtaaaatg ggtaacctac caccaccca 120
 aaatacactt ccaccgatct catctcaagg ggtgaaaaga aagaatttaa tgtactagt 180
 tggagaaatt ggtgctacac agatattaca ttctaaaatc caaaacgcaa actgtattat 240
 tagcaaaaca tgcagcaatc ttgtcacctt ccttattcca gcagacctca aaaatgcccc 300
 cattgcctgt gtatgttttg acaatcttgc cgtccctcaa tgaccatatg tgcattggatc 360
 tgtcaagaga cccactaact agataatcgc cgttgggact gaaagcaaca gaatatacgg 420
 gatgcctgtg tccatccaag ctgtacatga gtttcccaag ttccacatcc catagcttta 480
 cagttgagtc aaatgaagca c 501

<210> 4275
 <211> 514
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063a09a1
 <400> 4275

cttgctgtaa atgataatga catccacaac attgttctgt catatcttat acataattgc 60
 taaaagaat cggtagaatc attcattgct tgcacgggag caaagcagcc gacagattat 120
 ttggaggaca tggataaaag gaaaagaatt ttctactttg cactagaggg aaatgcactc 180
 aaggctattg agcttactga acagctggca aaggatattc tagagaacaa taaggatttg 240
 cagtttgatc tactaagcct tcattttgtt gagcttgtct gctcaaggaa atgcacagaa 300
 gctttggagt ttgctcagac caaattgggc ctttcggaa aggagcccaa atatatggaa 360
 aagcttgaag actttatggc ctttcttgct tataaggagc cagagaaatc cccaatgttt 420
 catcttctta gcttagagta tcggcaacag ggtgcagatt gtttgaatcg agccattctt 480
 gacacttgaa tcttccaagt tcacagcaat ggag 514

<210> 4276
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063a09d1

<400> 4276

gtacaccccc aacgttttga ttggttaactt gaaacttact gacaaaagaa attggagggt 60
taaattcttcc ttctatttcc ccatacatgt aaccaaaga ttttacctta aattttttaa 120
caatataata tatatcctta attttggcag tttaacctca atggattgaa aatcatttaa 180
attaaggga attatgggac taaatttttg ctggccaacc tttcaatggg ttgaaaatac 240
cttaaattgg tacaaatfff gggaggggaa attgggtccc agatgagggc aactgccttg 300
gacagggggg tctttttaat cttgcatttt tggccctgat cactcataga ttactcaggc 360
cttgcaaaag tgcacggaga cccaaaagaa caagatagct tggaa 405

<210> 4277

<211> 444

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063a10a1

<400> 4277

gagtctgaaa atgaaaatct agagtttgtg aggaaggaag atgagtttga gggcatcaga 60
gatagcgaag aagttgaatc tgcaacctca ccagaggggt gggttttacg tggagacatt 120
ccgagaccat tccgtccagc ttctgacctc tcagcttccc cccgaataca aagtggatcg 180
ccctgtatcg accttcatct attttctcga tccttctggg agtgtgtctc gcctgcatcg 240
cataccctgc gccgaaacct ggcattcatta catcggcgac cctctcaccg tagtggaatt 300
gcatgagaaa gatgggagcg tatttcactt gccttggatc agatctgact cagaatcacg 360
tgccgcagtg cactgtgcct cccaacgtct ggtttggctc ttttgctacc aaggacttta 420
cctactctgc ggtcggcgta ttcg 444

<210> 4278

<211> 532

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063a10d1

<400> 4278

gacaagtaaa acatttcaac gctctaaaga ggcagggacc aatacctaaa atcaaaacta 60

gtaataagat aagttttccg tcgaaaagaa caacaacaac aacaacaaca acaacatagt 120
aatgtttatt tctcgcgttg aaagaggcat taattagaaa tagaaggaag gcgtctatat 180
gattattaga aagccgaaaa gcagaacaga tagatagtgt gagtcactcg gggaatgtga 240
gagcagtgc gagaggggtgg aattggggaa aacgagcgag gagataagaa ggcttagcga 300
gctcgaagtc ctggtactga aacgcagggg cacaagtgc tctacaaga gtgtagttcc 360
tctcactatc tctagcttca gcttcagctt cagcttttagc acttccgaat accccgttcg 420
cagagtaggt aaagtccttg gtaggaaaag agccaaacca gacgttgggg ggcaccgtgt 480
actgcggcac ctgattctga gtcagatctg attcaacgca agtgaaatac gc 532

<210> 4279
<211> 580
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063a11a1
<400> 4279

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ctcgaagtga tgatggagtc acacgtggat ctaggttttc tccttcaagc tctcactcca 120
tcttggaact ccgttccttt gcttgtgggg ttcttcactt acttgccgt tgctggatcc 180
attctccctg gaaaacttgt tcttggcgtt gcactactcg atggaactcg tctacactat 240
tgctgcaatg gtctgctctc gcttcttctg ttggttgac ttctcgggat cggtgccaag 300
atgggttttg tgtctccac tgccatatca gacagaggac ttgagctgct gtccacatac 360
tttgccttca gttntcttgt aacctgata tcgcattttt ccggttgcaa gtcacatagt 420
aaaggttcat cactaaagcc tcatctcagt ggaaacctga tacacgattg gtggttggtg 480
tacaactaaa tccacagttc atgggtatcg acctcaaatt tttctttgtt agagctggaa 540
tgattggatt gctacttacc aattnatcta ttcctatgaa 580

<210> 4280
<211> 361
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063a11d1

<400> 4280

ggaaaaaaga aggcccgggg ggggcagaaa aagggacccc aaaattaggg gggaaaaaaa 60
accccccaaa aaacttttcg ggggccacag gggtaaaaaa aaaaaaaccc caaatggaac 120
ccccaaaaac aagaaccaat ttacatggaa ggggtaaaaa accccggcaa aaaaaaaaat 180
tcggggggaa cccctttttt ttttcacccc aaaaaacggg ggggaaattt cccagggaa 240
caagtttaca aaactgggcc caaatcttct aaaacttttg ggggcaaagg ggttaaacc 300
tttttttttt ccaaattacc cgattaagaa aaaaaatggg aaaaaaatt ggaatggggg 360
a 361

<210> 4281

<211> 455

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063a12a1

<400> 4281

cagaagagga aatagtagac ctgactgagc ctaggtttga atcattttgc atcacaaatg 60
gcaatgtccc atgaaaacat aagaccaggc acgggcagat gtgcagatgg cagaaatctg 120
aggagtttat gttgtgtgaa ctggtgatac acctctgttg cttgttctac caccggttac 180
tgtacatggc tgcattgaga tatcataaga gatgctgcaa ttattttggt ttaagattat 240
cttgggtctac atgttttctt tttccttggt ttgaaagcaa aagcacatag gtgttggttag 300
atgagcactg aaaagtattc gtttgtttct tgtacagaaa agcataggat gatataggag 360
attctgggtc ttctttattt ggagaggaac tggatgacat acacattaaa ttaaagggtt 420
tggtcacaga aataattgtc ttacaattat gtttg 455

<210> 4282

<211> 367

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063a12d1

<400> 4282

aaaaacaaaa tgggaaaaaa attttttggg ggacaaaaac ctttaattaa aggggaaggc 60
 caccatttc cttcccaaaa aaagaacacc caaaatcccc taaaccaccc aaggcttttt 120
 ggacaaaaaa acaacccaat cctttacagg gctcattaa caacccttg gggctttggc 180
 tttaaaaccg gggaaaaaaa aaccatgtac cccaaaatat ttttaaaaca aaagaatggc 240
 cccttttcta aggaattcta aaggcggcct ggtccagaac ccgggggtaa aacaggcccc 300
 agggggggtt ccccggttca cacaccataa acccctcaaa tttcgccat tggagcattt 360
 gcccggg 367

<210> 4283
 <211> 611
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220063b01a1
 <400> 4283

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 agaaggcgca cctcaccga accgtctcgg caccggcatcg tcgctcgct ctgcggttgt 120
 gcgggtgtcg gggcgcggaac attcaatttg actgtttagt taattaggta ttaatcccca 180
 aactgacttg gcaacaattt cgtcagacaa cagatataca gcaccctgaa taggaacaaa 240
 ccaaacaac ttgaacagca acttactcta taaaccaact ggccacgggc ctgtacaacc 300
 caacaaagaa cctgtggagt agcagcgagc taggtagagc actttgcgag atcgctgatt 360
 acagaatggt gtggaggagg caccgttgat gggaggctga agcgcgatgc aatgcaacga 420
 gcgtcgagc gaacgtgcta agaacggaag gcgtcgaggt gggaggcgag ttttggagcc 480
 ncggtgcaga aggatagttg ggaagacgag gcgccaggcc tagacatgag gtaacgaaag 540
 agcctagcct gctcaaaggg aataaaaaaa tgaggggggt aggggtggtt ggtgggaagt 600
 tgtaggggtg t 611

<210> 4284
 <211> 215
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063b01d1

<400> 4284

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ttctaaaggg gggtaatttt taaaaccccc tgggggggggt cccaaaaagc tcccgacaat 120
taactttttg gggcttacat tccgacatac cccagttcag cccccctttg ccataaaggg 180
ggccccaatt attagagaag ttttcagggg ggcac 215

<210> 4285

<211> 332

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063b02a1

<400> 4285

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tattcacacc cctccacttg tccttctcg ccgccacgt cacctcctcc gccgtaacca 120
tgccctcctt cgaagtcctc ggcggcgac gtgaccgttt tctccctgtt ctccccact 180
tgtctcgccc ctatcatgct tttcctcttc tcgccgcaa ccgccacatc gaaaccatct 240
tcgcctgctt tcttcgtca gtccccgacg tcaggctccg gcgcgagtgc ctccaggacc 300
aggacggcgg caccgtcgcc ctgcactggg tc 332

<210> 4286

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063b02d1

<400> 4286

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tttgatagtt gtttattttt gctttctaca agacatatca aagataattt tgaacattat 120
tgacattggc caccgagcta cggcatccac cttgtcctgc tggacttctt gcacaaacaa 180
tagtgtagtt gcttccacac attagcattt ccagggatta tgaattggct aaagaatgtt 240
gcaggatata tagatatctt tttttggcca gcttccagga tgcatttgat gtatgaaaaa 300
tatcaagcag attgccacat tatacttcaa gatggtacaa ggtctcttta ctaccaggat 360

tactattagt ttctggagtc ttaactgctt cactctccaa atattgaata aagtccatta 420
 ccaaaggatc agtccaagga gctcccagtg gagcttcac accagcaacc caccctagat 480
 ggccaccttt ggggtgtcact attaacaagc agtttggat 519

<210> 4287
 <211> 590
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220063b03a1
 <400> 4287

cccaaagggg accttagaga gcaatcttct accttctctc tcctctctct ctctctctct 60
 cttttgcttt tattattctc tttcaatggc ttcacacctc tccagaacaa agtctagtgg 120
 acccggttcta cgctccctct caccctccac cagattctgc tcatacacca cttccaaaac 180
 tcctttctct tctccttcat cggccttcgc ttctccaca agctctggct tttcgtcttc 240
 atccttcttc aaccagccac gtcagcatca cgctcacagc catcaccgtg cggcatcgcc 300
 caccggtgtc aatctatgca gccccgcccc tctctctctc gccgtccggt tctcaatcga 360
 tccacggtcc atatctccga accggtccat ctccaaccag atcatcacga cgaagaacaa 420
 ccgtccgac tctggccaga agaagacgtg tatgtgctcc cctacgacgc accctgtgtc 480
 ctttcgatgc agcctccaca ngaacatagg aagcagcaac cacaacgccg attcgtancc 540
 ttcgaccggc taacatgcgt agatccgcta tgaagaaact cgctgtgaga 590

<210> 4288
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063b03d1
 <400> 4288

aaaaaaaaag ggggccaac tctgcttcca tagcaaaatt tatgtacaaa atgcaatttt 60
 ggggagggcc attggcaaag atctatgcga atttcacat tgggggtccag acgacgaaat 120
 caaaacttgc cggagaggac tcgccactgg ctcccagccg cttcgccgga atccaacttt 180

ggggggagat aagggcccca ggggggggtct ggaatttaaa ccagtaaaat caaaaacaac 240
 ctgtatgctg ggaatcgaaa aaaacatttt gttttcttta aaaatcataa atcctgggcc 300
 tttgacatga ccgaaagacc actgggcctg ggcttgaacc ccggtttcct cctgtgatga 360
 tgcgaactgg gaccaatgaa tgctgtcagg gcccgtttca cccaatcgcc cttcaggcct 420
 tcgat 425

<210> 4289
 <211> 598
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063b04a1

<400> 4289

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 tggtgattcc tccgtcgccg cacctcccat cctcttcgat tatcatctta tcgacaaaaa 120
 acttctccaa aacatagtct acgatgctct tgtctggagc accctcaact gcctccttgt 180
 tggtgacaaa tcagttcaga gatcaggaac agttcctggg gttggcctgg tgcattctccc 240
 gctttcttta ttacctgggc catttcctga aaatcattgg aagcaagcgt gcgaattagc 300
 tcctatatatt aatgaacttg ttgatcgggg gagtttggat gggaaatttc tccaggaatc 360
 tctctccaga actaagaatg cggacgaatt tacctcaaga cttttagata ttcatcttaa 420
 gatgctacag attaacaaaa aagaggacat acgcatggga atagttcggt cagattatat 480
 gattgatgag aagactaaat cacttttgca aatagagatg aacacgattt ccactttatc 540
 tggcttgatt gctgccttat gactggactt cataagagct tactttctca atatggga 598

<210> 4290
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063b04d1

<400> 4290

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 catcccatag gagcaattaa aagaaacaac aatgcctctt ttcttctttc actgttttcg 120

gagatatata aacaaaatca ggagtcagga gacttgagtg gtaatatata aaccatacat 180
aatgttttga attgctttga taacttgggg gttggctcca tcaagttagg tatacagtat 240
ctaccactcc aaaaccaggc aaaactccac cttcataaga tgatgatatt tttgtacgca 300
ccatatagcc actttcgta ttaatgataa ctttatcctt attccttaaa taagtaccaa 360
atactccagc ttctgaaatg acatgaccct tatcccaatt accatcacgc accaaaattg 420
ctggagaagt ggctggaaat atcctctgca taaggatgta tgctgcatct tcttcagaac 480
ctgcttcctg taatttaaag agggttccct caactcatca ccat 524

<210> 4291
<211> 372
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063b05a1

<400> 4291

gcaactgcga ttttggatcg gaacctcttc tgcggcgtag caatgggaca ctccaacgtt 60
tggaattctc acccaaaaaa ctacggctect ggttctcgca cttgccgagt gtgtgggaat 120
ccacatggat tgatcaggaa gtatggcctt atgtgctgca ggcagtgctt ccgtagcaat 180
gccaaaggaaa ttggcttcat caagtatcgc taaaagagct gttgtcacct acggaccaat 240
attatgttct ggcactagga tgttttgaag atgttatgtt tgaagaaact tgagacttgt 300
ttttttcatc tattttatta tcagacataa tgttggaac gaagaatact tttatataaa 360
ttgttttgca ct 372

<210> 4292
<211> 372
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063b05d1

<400> 4292

agtgcaaaac aatttatata aaagtattct tcgttcacac cattatgtct gataataaaa 60
tagatgaaaa aaacaagtct caagtttctt caaacataac atcttcaaaa catcctagt 120
ccagaacata atattggtcc gtaggtgaca acagctcttt tagcgatact tgatgaagcc 180

aatttccttg gcattgctac ggaagcactg cctgcagcac ataaggccat acttcctgat 240
 caatccatgt ggattccac acactcggca agtgcgagaa ccaggaccgt agttttttgg 300
 gtgagaattc caaacgttgg agtgtcccat tgctacgccg cagaagaggt tccgatccaa 360
 aatcgagtt gc 372

<210> 4293
 <211> 52
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063b06a1

<400> 4293

ggattactaa aatattgggt gatcctctat tgcttcttag caatggaaca ct 52

<210> 4294
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063b06d1

<400> 4294

aaaaagggtg aaaagattcc aagttcaata tactcaggaa ttaattaca tcaaactgca 60
 gacgccagct ttacaaaagc aaattttcca aataaactgt gtcttgactc tatatctgag 120
 gcacccattt atttctatcc aattcaatat atacattcta tgcttgacac tgcaaaacca 180
 tgacacagcc acattgcacc ctatcgcat gtgactccat catgtggcca aggggaacaaa 240
 caaaaccttt tgtaccttca tgctttttgg accctgcaat gccaaaaaat taaggattgc 300
 ttcaactgcg cacaattgcc tagccagaag aagacgccgt tctgggagaa acaagaactg 360
 gttcattgct tgcagctttc atggctgcaa tctcttctaa gcgcttccat gtagcctctc 420
 gcttcaactt caaagctttc tcttgctgct catcttctt gaacttgcgc aggcactcct 480
 ccaagagttc aggatcggtg tcagcaaaga tcttgcgtag atttattgtc aaa 533

<210> 4295
 <211> 351
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063b07a1

<400> 4295

ttcggctcga gcttcttcta tgggttggct tagtcggttc ataactgccg tggttttctt 60
agccatcgga gtgatattct caccggagac actgggggtca aaatcaacca cactttccac 120
ctacctcaaa ctgcctcacc ttctctgctt ctccaccgac ttcggcgccg ctctgtgggt 180
aacattcatc ggcgcatca tcatgtttaa aaatctgccg cggcatcagc ttgggaacct 240
gcaaagcaag atgtttccgg cgtatctctc gatgcgggggt gtctgctgcg ccgtatcggc 300
ggcgttcttt ggctaccttc acccgtggaa aactttctca cactgagag a 351

<210> 4296

<211> 411

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063b07d1

<400> 4296

cgccctggcc gccctttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttg ttgtttattt ttgtttttta ttttattttt 120
tattgttggg aaacccccta aaagaaaccg ccattgtgc tacggggggg gggggggact 180
gccggacttc tccagtgggc cccaaaaaaa ttggtggacc aaaaaaagg gggagaagca 240
aaaaagggcc cctagaaaaa tgggccaac atttaaaacc tttttaggcg ggggaaaaag 300
acgcaaaggg ggaaagaaaa aaaacccggg ggcgccacat taaacctgat gatggaaaaa 360
agtctcttga ctaccaaaaa aacggggagc aaatcgggac aaaaaagaa t 411

<210> 4297

<211> 554

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220063b08a1

<400> 4297

gtacaattgt ggggtcacat tctcaaggac gcgctttgca tgctgtgcac attttgggtga 60
aggaagttag atctgtggga gaatgtcgtc gtcggaggcg caggagcgcg cgcagaggcg 120

atatttgaca gtgggggtggt gccgtcgtct ctcgtcgaga ttgcacccat tcttcgcgtt 180
gctaatagagg ttgagaagac tcatoctaga gttgcttata tctgccggtg ttatgcgttc 240
gagaaagctc atagactgga tcctacttca agtggtcgtg atgttcggca attcaaaaact 300
gcccttcttc aacgttttga aagagaaaaac gatccaacat tgaaaggaag agtaaagaaa 360
agtgatgctc atgagatgca gagtttttat cagcattact acaaanaata tatccaagct 420
ttacaaaatg ctgctgataa agctgatcgt gcgcagctta ccaaggcata tcanactgcc 480
aatgttcttt ctgaggtttt ttgacgctgt taacatgacg cattctatgg aagtggatcg 540
tgagatttgg agac 554

<210> 4298
<211> 502
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063b08d1
<400> 4298

gcatcagacc ccacctccat ttaccaagca atgctatgtt gaaattggtg atatccttaa 60
tgtccagacc tccattttct ttaggtgatg tcaccgtgtc ccacctaata catgcgatct 120
tattttggtc aagccctgct ccccaaagaa accttcgctg cagtctcacc aatttgtcca 180
ccactaatat aggtgccgtt agatttgtca aaatttagct gctcaactgg caggcaaaaag 240
aaatcagcat cagcacgcat cggccagcca agctgaaaac aatcagctga ccagaaatat 300
tcatttaaat catcatagtt cctccattgt gaatgctttg acctaccctt tttgctccgt 360
gcagcttcct taagaaagcc tcattctcac ctacataggc tggcttgaca ttctctcctg 420
tcattggact aacattgcca gcaagcatac cgtacaactc aaaggcatat ggtgatagat 480
atagcanagg cattctggaa tg 502

<210> 4299
<211> 578
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063b09a1

<400> 4299

gcgtttcttg gtgcttggtg taaagcgcaa gcgtttttgg gttcgggaaa agaaggaatg 60
aagagaaggg tctagaacaa cacaacacta cggattgaat attgaattaa acgacgctca 120
tggctacggg gccggagaag aaagcgaagg aagcattctt cgacgacgaa ttcgctctgg 180
ccgttgatct ctactctgaa gccatacgat tggatcccaa cgacgcaaatt ctcttcgcgg 240
acagagccca agcccatatc aaactcaacg ctttcaactga agccgtttcc gatgccaaca 300
aagccatcca attaaaccct tccttggtcca aggcctatct tcgtaaaggc accgcttgta 360
tcaaactcga agaatatcac accgtcaagg tagcgcttca aaacggtgct gcttttgccc 420
aagatgattc acgattcgcc aacttgattc aacaatgtga tcgcttcatt gaagcagagg 480
aatcaagtgg ccttactagc ancctatcat canatggggg ccatacatct gtaccgtctg 540
gtaatgggtc ccatttcagc aatagaaatg atgggatg 578

<210> 4300

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220063b09d1

<400> 4300

aagctgatct tcatacttaa tatttccaat atgtgattca caaaaaataa aaacccgatt 60
ttcctcatgt ttagcattat caacatacac caacaaaata aaatccactt ccacagcaaa 120
agcaaattag gtcattctcc cagctaatta ctttctccaa caaaaataa taacgagttt 180
acagaatttc tttttctttt tgcatttatt tggtggcagg agttgggagg agacgaactt 240
gaactctcac aagcataagc ttaaattgat atttaagtac cgaatcaata ctcccathtt 300
ttcaactcca taccttctgg agcactgcct tccaccttct ttgatccac ttctttccaa 360
tcagttgata gcaactgttc atttgactcc aagaaagact tgctcattgc tctcctcatg 420
tcctcatctg cattttggta aatatcacgg aacaatttac tcaaagcagc atcaccatca 480
agctnttctt c 491

<210> 4301

<211> 173
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063b11a1

<400> 4301

gttacgtgct ttgctataat atctttggat ttaagtaagg aggaaaattg ttattatttg 60
tgccatattt gttggctgac caagttgaag tgcttggtga ttaacgggtt gtcacatggc 120
aatatgacct gtaaaagatg catactcgaa gtaaaaacta ttgctgtaat ctt 173

<210> 4302
<211> 176
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063b11d1

<400> 4302

aagattacag caatagtttt tacttcgagt atgcattttt tacagggtcat attgcccattg 60
agcaaaccgt taatacacia gcacttcaac ttggctcagc aacaaatatg gcacaaataa 120
taacaatttt cctccttact taaatccaaa gatattatag caaagcacgt aacctt 176

<210> 4303
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063b12a1

<400> 4303

gagagatgct tgctgggtgtt aatccatgcc taattgagtg ccttcaagtg ttccctccaa 60
agagcaagct agatcccaca gtgtatgggtg atcaaactag tacaataacc aaagaacact 120
tagagatcaa ccttgggtgga ctctctgtgg aacaggcact gagtggtaac agattgttca 180
tattagatca ccatgatgca ttcacgcgat atctgaggaa gatcaatgac ctttccactg 240
caaagtctta tgccacaagg accatccttt tcttgaaaga tgatggcacc ttaaagccat 300
tggccatcga attaagtttg ccacatccta tgggagatga gtttggtgcc gttagtagag 360
tcgtcttgcc cgcagaccaa ggtgctgaaa gtacaatttg gctaattgcc aaggcatatg 420

ttgttgtcaa tgactcctgc tatcatcaac tcatgagcca ctgggttaaact actcatgctg 480
 tgattgaac 489

<210> 4304
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063b12d1
 <400> 4304

gacatagaga aatttgattt gacattcata gatcagaata tcagacttac atacgggtga 60
 acatgatagc ggtgaacatg ataggagcac aatactatac ataaaaactg acacaacacc 120
 ctattagata tgaaaaacta gatagcatcc aattacaaaa ctttaagcata cataagaaaa 180
 ttatgcacac ataagtttgc acgtttatgt gtcaatgaga ggtacgttgg aaggaaagaa 240
 aaccacacac cacacaccac acactctcat tagatagaga tgctgttggg aattcctctg 300
 aaagtaaggc cttccccact ggttaggaaga agcacagtgt agggcatctg cgccggtcca 360
 ttacggttcc taaggcttga attcttgttc ctccctgaga ttttgccttc aatttccttc 420
 agctt 425

<210> 4305
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063c01a1
 <400> 4305

aaaaaagaca acccagagag cgcgtcttaa taaacgctct tctctgaaaa cccccatttc 60
 ttttcttctt tcttcttctc tttcgttctc tcgatcttcg atcttcgtcg ctgaaaatga 120
 gagagtgcac ttcaatccac atcgccagc cgggattca ggttggaac gcctgctggg 180
 agctttactg cctcgaacac ggcattcagc ctgatgggca gatgccaagt gacaagaccg 240
 ttggtggagg tgatgatgct ttcaacacct tcttcagtga aactggggca ggaaagcacg 300
 tgccccgtgc gatttttgta gatcttgagc cactgtgat tgatgaggtt aggactggga 360
 cataccggca actattccat cctgagcagc tcattagtgg aaaggaggat gcagcaaaca 420

accttgcccg tggccactat acca

444

<210> 4306
<211> 402
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063c01d1

<400> 4306

gttcccaaag tttaattctt ttaaaacttt aaattaaacc aagcaatttt aaaaaaatgt 60
ttttacccca cttaacataa agttccaaaa gtcccgaac ttggcaagtt ccccggaag 120
tccaacgata cggaagctc caaaagaaaa acaacacaaa aaggaaaccta atagggcaaa 180
cttctaataca taatcctttc cttgatcacc attttaagtt gcctctgcac caacttctc 240
ataatccttt tccagggcac caagatcttc aagggcctta aaaaactccc ccttttttat 300
acccttacca acataccaat gaacgaacgc ccttttgga tacatgaggg caaaattgcg 360
gtctttgcaa aaaaagacct aaacaacact ggtggaattg ga 402

<210> 4307
<211> 430
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063c02a1

<400> 4307

ggctcgagta tagcccaagc cctatacaac caaacctaa cacacacca tttgattcag 60
tttccatggc tagcctcaag gttgcatttt tggctgcagt gctctgcatg gttgtggtga 120
gtgcacccat ggcacatgca gctatcacgt gcgggcaggt gacgaatagc ctgatcaatt 180
gcatcggtta ccttcagaac ggaggaacgc cgccgtcggg atgctgcaac ggagtgaaga 240
gcctcaatgc cgacgtcaag accaccgtcg accgacagac ggcgtgcaac tgcctcaagt 300
cggccgtcag ccaaattctg tgtttcaaag tcaacaacag cgtctcgctc cccggcaaatt 360
gcggagtctc catcccctac atgatcagca ccctcaccaa ctgcgctacc atcaaggttt 420
gaagagaaag 430

<210> 4308

<211> 469
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063c02d1

<400> 4308

agggagaacc caatattaaa gtagatataa ctatgtgtaa ctcatacaga gaaataacaa 60
cgcaacacaa tttaaagcta tccaatacaa atctctcata caagaggaga ggggcatata 120
agtggagccc tcatcaccct cgatcttatt cttaatatta ataatgctac tcatatacta 180
gtgagtagtt tccggtttcc tgcgtccatg actttctctt caaaccttga tggtagcgca 240
gttggtggag gtgctgatct tgtaggggat ggagactccg catttgccgg ggagcgaggc 300
ggcgttgttg gctttgaagc cggagatttg gctggcgggc gacttgaggc agttgcacgc 360
cgtctggcgg tcggcgggtg tcttggcggc ggcattgagg ctcttcactc cgatgcagca 420
tcccgacggc ggcgttcctc cgttctggag gtaaccgatg caaatgatc 469

<210> 4309
<211> 536
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063c03a1

<400> 4309

gaagaagaag ggtgagctaa agtcaatddd ccttccttcc ctttccacta gtcacataat 60
cccgctagtg gacatggcca gactcttcgc cttgcacgac gtcgacgtca ccatcatcac 120
caccgcacat aacgccaccg ttttccaaaa gtccatcgat ttagatgcga gtcgcggtcg 180
ccccatcaga acgcacgttg tcaacttccc cgccgcacaa gtgggtctcc ccgttgggat 240
cgaagccttc aacgtcgata cgctcggga aatgaccccc agaacttaca tgggcctatc 300
ccttctccaa caagtcttcg aaaaactctt ccatgacttg caaccggatt tcatcgtcac 360
cgacatgttc cacccttgga gtgtcgatgc tgctgctaaa ctcggcattc cgaggatcat 420
gttccacggc gcaagttatc tcgctcgctc cgctgcgcac tccgttgaac agtacgcacc 480
ccacttgga gcaaaattcg acaccgacaa gttcgtgtta cctgggttac ccgata 536

<210> 4310

<211> 438
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063c03d1

<400> 4310

ggcaggaaat cgttaagttg tcaacacgat cggaaattcg tagtacatac tcacgaaaat 60
 gatgatggac atcctgagta ctagaagtta caaaaacaat gaaactaaga aaaagaaaat 120
 gatggatttc cctgggatac tgatactggg aagactaata agagggtccc aaaatacatt 180
 actcttgttc aaaagatgga aaagcagaac cagtcttaag gattgggtgc gggctcttga 240
 gcctccttgg aaagcttgat ctccctgagc tcccgaatca attccttcat gttgggtgtgc 300
 gaagatccac caacctttat agcactcttc gccgcaacgc ttagctcctt gggtttattg 360
 ctcatctctc catcttcttc ttctcactc atcaacgaag caatcgcggt tacaatctgc 420
 tcccgtttac caccttaa 438

<210> 4311
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063c04a1

<400> 4311

attcatttca ttttctcttt ggaataacct gcagggttgc ttccatttca acatgtagag 60
 cgcgctcttt gttgttttca tttctgacaa gttctttttt tttgttgctg tgcaaaatcc 120
 ttctcctcga ggcggcggca tggaaagcat tgccgcgcag ctgaagcgcg gcctctcgcg 180
 gcagttctcg tcgggggtcg tgccggaggaa cctctcgtgg cagttcacgc gccaggcctc 240
 gctggatcct cgccggaaca accagcgctt cagcttcggc cgccagtcct cgctcgatcc 300
 gattcgccgc agcccctgct ccggcaacgc cgagctcacc gtgccggaga acctggactc 360
 caccatgcag ctctcttcca tggcctgccg cggcgacgtc aaggaggttg aggatttgct 420
 caacgaaggc atcgacgtca acagcatcga cctcgacggc cgcacc 466

<210> 4312
 <211> 546
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063c04d1

<400> 4312

ataagaaaat ttctgagatg ttatatctcc tttatggtac attgtacaga gaggagctgt 60
tccagccctc tagtagacag gaacatagga cgaaccatgc aaattcattt tcacgctcaa 120
attaatccaa gctcaagtta atattattcg aattccaaaa ttattaattg caagggctat 180
taacagtaca ccaccatgaa gctgacaaat tggttttgag gatgcaaccc tgaacttgat 240
gtcttccttg ccacgtagta tgtactttgt tatttatttc caagggagtt taaaagtatc 300
tttccaccat ccttgttttg agcaatttgc aacgattttg tccaaccgtg caatgacctg 360
agaaaatggt ggctcacaa caggtgttgg atcccaacat tcctcgatca actctttcaa 420
ctctggagga taatgttttg gtttgatctt gaatgctggt cttttccctt ccaagcacat 480
cagtctaact gcctcctccg aggacttggg atggaaggga tgtgtaccct ctatcatctc 540
atatat 546

<210> 4313

<211> 572

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063c05a1

<400> 4313

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tcgctctaag caacacgtcc ttttcttcac atattccagt gtgctgttct gagattcgga 120
gagatggggtt tggaagaagc ttccagaaac tgtatataag tcatcatgct gttgtgacag 180
ttaaaggtag cgtggtgtgg ggaaggagcc tagtgattag ttgtttgaga ccactaagga 240
agtgaacaag aggatgtcaa acagtaggaa cactcattgg tgttatagtt gcaggaggcc 300
agtttggtcg ggacggcgag atgcggtttg tcctagctgt aacgagggat ttgttcatga 360
acttaatgat atggtgcatg ttaatccttt tgacttattt gaaatggaca acaatgaaga 420
acgagatcaa aggcttggac tcatggaaac attctctgcc tttatgacgc atcaaattggc 480
agataggggc agaagccttg acatcagggc gcacatcaga tcaaattcctg aaccagtgca 540

gggtttgctc cttgtgatct ttgtggccaa ta

572

<210> 4314
<211> 474
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063c05d1

<400> 4314

agattcaaac aattatgcat aaataacccat ttatacaaaa tagttcacia ctttagaaaag 60
caaattccaga ctggctgact caggctctaaa accgttttca cccaagcta gcagcatcag 120
tccataagat ttttcaatca acaggagcag atttaataaa cacaagacia tgttctactc 180
acactaagtc attcaaatgg ccaccagaa taccctgcat gatgatgatg gctgttctca 240
gggatagttg gtgtcgggtga gctgcttact gttgcttcat cattactgct tgaatgagaa 300
gaacgaaaag gccactacat ggaaaatgga tttctccttc catggctctg cctaccacta 360
ctacttaaac ttgcatttct acttctacca tttgtgctgt ggttactact actcaatcct 420
tgtggcagca gttgctgacg acaaactggg caggagttat gctggaccaa ccat 474

<210> 4315
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063c06a1

<400> 4315

agaaaaaaga ggcgcaagat gagtggtagg gtttctggga aggtgaagtg gttcaacgat 60
cagaaggggt ttggattcat aaccctgac gatggcagcg aggaactctt cgttcaccaa 120
tctcagatca aatctgacgg tttccgaagc ctagctgaag gagagtccgt tgagtctgct 180
attgaatctg aatctgacgg acgcgccaag gctgttgatg tcaactggccc cgacggcgcc 240
agcgtccagg gaaccagacg cggcggtgat ggtggccgaa gctatggcgg gggacgagga 300
gggtggtggag gtggatatgg cgggtggcggc ggctacggtg gtggcggtgg atatggtgga 360
ggcgggtggct actgtggtgg cgggcgatgc ggtggtggcg gtgcttgcta caactgctgt 420
gaatcgggac atctggctag ggactgcagc caatgaggct gtggaacag gta 473

<210> 4316
 <211> 535
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220063c06d1

 <400> 4316

accacagaaa ccgataacaa tcatccaatt cattatagca aaatgtaggt ccaaacagat 60
 tttgtttgca gattgtaacg ataacacaga aacttttcatt taaataacca aaaaaaagaa 120
 aaatctcacg catctactta taagaagcca cagctttgac agaaaccatt aaaatcccta 180
 caacatgtta aagtaaaaac ttaaaacaat ccgcataaca taaaccacca taacagtaat 240
 ttcaacgagc acttgatggg caatctctgg cgaaatgccc agactctcca cagctgtagc 300
 agcttctctc gccgccacca ccttctccac caccaccgta cctcccgcc ccgccgctc 360
 catacctgcc accaccacca ccgccttcgc cgtacctgtc tccaccgcct ccttggtgc 420
 agtccttagc cagatgtccc gattcaccgc agttgtagca agccccgcc ccaccgtctc 480
 gccaccacc accgtagcca ccggtccac catatccacc gncaccacc tagcc 535

<210> 4317
 <211> 420
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220063c07a1

 <400> 4317

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 ggcttcagct tcagcttgct gctcccttct caacttcaac aatttcgata acacttaatg 120
 tcctgctatt gtagggacat cagtattgct aatcatgata' tggtaaggc tcagtaggag 180
 aactcatctc ttgccatacc ttagggcttt gcaaacagac tcaattgaat ccaggtgcct 240
 atctatcatt cctaaaggat caagttacaa gttcattaat cctaatacca gttccaaca 300
 caatttctct tgtaatatat ggctatcaaa gtttaagcaa gaattgagta caaaaccatt 360
 ccatctgtgt taccgctctt cagcttttgc ttcacagtat gtcgaaagt catgttccat 420

<210> 4318
<211> 380
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063c07d1

<400> 4318

gccccgttaa actattacca atattcatac catgctagtt tccccctgatt gtaaacgtca 60
ttgtcactta ccatTTTggg aatatacttc aacctTTTtac agttctttaa taagttttac 120
tatcaataaa ttttaaaagc aaaattattc attcatctaa atggctaatt tgaagagggt 180
ctccaaatcc ctgcttgcat taacttaggg gcccataaa attagcataa ttccaaatgt 240
catgggatgg gaccttgaac cttcaaaagt tgatcacatg ggTTTTctag tagTTTTgct 300
gaagctgaaa atattcaaga acttggcaag cgtaccgaag aggcaagctt ttttatacgt 360
gggaaaccaa tatgaaaatg 380

<210> 4319
<211> 518
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063c08a1

<400> 4319

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ggcagggaag ttctaaacta gacgaagctt tagaaattgc ttctgacttc ccgcgtgtaa 120
gtgcacttgt cgtttctgag tttatagggt gctcaccatc tcttagtggg gcaataaggg 180
taaaccatg ggatattgat gcagtagctg aagcacttaa tttggcaatc acaatgcctg 240
atggagagaa gcagcttcga catgaaaagc actatcgata tgtagttct catgatgtgg 300
cactactggg tcgaagcttt gagcaagatc tagtgTTctc gtgcaaggat cactatagta 360
accgatgctg gggcattggc tttggcctga atttcagaat tttgtccctc tctcctagtt 420
tcaggaggct atccatagac cacattgtcc ctgcatatga gaggtgcagt tgcagggcaa 480
tatttttggg ttatgatggg acagttgtac ctgaagct 518

<210> 4320
<211> 468

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063c08d1
 <400> 4320

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 tgaattctca cccggaaga atgcctagat tctgtattct attaacatat tgagtatcct 120
 ttaaaagcta cagctaaagc caacagatgc atccaatttc cccaccaac caataaaaac 180
 caatcactct aatcccctgt gtcgcgtttc tgagacctaa agctgctacc aatattcttt 240
 acaatcaaaa gtcagactta aagctatttc cttaaactct tcttttatgc atcttttcaa 300
 aaacaacat caaaattgtg cctttatccc atgctgggtg ctatagtgt ctttttaaac 360
 atcattctca aaacatactt ctcttttctc aaaaggggtt tctgtagagc atcttgattt 420
 atgcctgaa gccgcaccaa gaccctaaag tatgtcatca catccaca 468

<210> 4321
 <211> 564
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063c09a1
 <400> 4321

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 ctctgccgcc gccaatgaca agggagaagc taaccaacaa ggtagtaata accatgcaaa 120
 cgacaacaat gataattcca caaacctac cactgcccc aagacgacat caaagccacc 180
 acccacggtc accccaccca cttcaaaacc ctcgaaaccg gctgcaatgg gcccggtcct 240
 cggccggccg atggaggacg tgagagccac gtatacaata ggtaaagagc tagggagagg 300
 ccaatttggg gtcacacatt tgtgcacaaa caaagccacg gggcaacaat ttgcatgcaa 360
 aacaattgca aagaggaagc ttgtgaacaa ggaggacata gaggacgtga gaagagaggt 420
 tcaaatcatg caccatctct cgggtcaacc taacattgtg gaacttaagg gtgcatatga 480
 ggacaaacaa tcggtgcatt tggatcatga aacttgtgcg ggtggtgagc tttttgatcg 540
 tataattgct aaggacatt acac 564

<210> 4322
 <211> 519
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220063c09d1

 <400> 4322

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 tttttttatg gtaaaccctag cacaaactat taaggcctag tatttaaaag gaaataatac 120
 ataaacaaat accctttttt taattcctaa ttatgtgagc cgcaatatca atacatgtca 180
 tgttgcaacg ttttcacata taaggaaaaa gcaaaagcaa aaaaatgtta atcaacccaa 240
 ccacctagtg tatcttaaca tttctcaagg atttgtttat gttcttctta cccccctcc 300
 ccctttccct cttttcttgg tttttgattc cacctttctc ccgttcctaa tctgtatccc 360
 ctcgcaacca acaaagctat gatgaaatgc agcccatgat cattctttca ttcaccata 420
 agcttctcca cctaagaaaa ccattgtact gatgaaacca ttttaagtgc cttcccttag 480
 agtccctcca ttatggcaat ggcaaattggc atgaatcac 519

<210> 4323
 <211> 505
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220063c10a1

 <400> 4323

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 ccgttgattg aagaagatgc cgatcagaaa catcgccatc ggaaggcctg aagaggctac 120
 tcaccccgac acgttgaagg cgggggttggc tgagttcatc tccacctga tcttcgtggt 180
 cgccggttca ggttccggca tcgcctacaa caagctcacc gacaacggcg ccgccactcc 240
 cgccggcctc atctccgctt ccacgcacca tgctttcgcc ctcttcgtcg ccgtctccgt 300
 cggcgccaac atctccggcg gccacgtcaa ccccgccgct accttcggcg ccttcgtggg 360
 cggcaacatc accttactcc ggggcatcgt ctacgtcatc gccagctcc tcggctccat 420
 cgtggcctcc ctctctctcg ccttcgtcac tgccttcctt gttccagcat tcgggctttc 480
 cgctggagtc ggagttggca acgct 505

<210> 4324
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063c10d1

<400> 4324

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 atacatacat tcaattcaat tgtggaccag gtgagagcga gagcatgcac aaaatgataa 120
 ttaaattaac taaaagaaa acttcaggat catcaaccat ccaaccaaag atcaacggcc 180
 accgattcaa caggaaagaa aacacaaagg aaggaaaacc atacacagaa gaagattccg 240
 gagaaattca ataatacaca tttttttttt ttattatttc atttttcccc tctagtagtc 300
 agtgctggga agctgctcgt ggggtgtggct gatgaagaca acctcgtaga taagcccagc 360
 aattccacct ccgatgagag ggccggccca gtagatccag tggttgggtcc aggtccagct 420
 cacgacagca ggcccaaagt tcacagcagg gttcatggct gctccggaga aggccccacc 480
 caacaaatgt tagcgccaac aatgaaacca atggcgatgg gaggc 524

<210> 4325
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220063c11a1

<400> 4325

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 cccagatctc ggcaccgaga ttttgattcc ggtctgcgcc atcattggaa tagggttcgc 120
 cctcttccag tgggtcctcg tctccaaggt taagctctcc gctgccagag acgcttcccc 180
 taacgccgcc ggcaaaaatg gctacaacga ttacctatc gaagaagagg aaggcctcaa 240
 cgatcacaac gttgtcttca aatgcgccga aatccaaaac gccatttncg aaggagcaac 300
 ctctttcctt ttcactgaat acaagtatgt gggaatcttc atgggtggctn ttgccatttt 360
 gatattccta ttccttggct ctgtggaagg attcagcacg agctaccagc cttgcaccta 420

tgatcatact aaaatgtgt

439

<210> 4326
<211> 310
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063c11d1

<400> 4326

gggacaaaga aaggtgaacc atgcggaaag gaatatatattt ggaaaatcga ccacgcggaa 60
tagatgggaa acatactgga cattatgcta ggtaaatttt gataaccgac ttaacctaat 120
caagatgtct taaacctcct tgagacaata tatactttga tcaaaggctg ggccagaaac 180
ggctataaac ccaatgggat atgagatgac agctggagta agagactatc actaacccta 240
ggatgcatcc tgaagggcct gatgctactt gggaaggctg attcaaata gaaccgcca 300
tactatgttt 310

<210> 4327
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063c12a1

<400> 4327

gcgagcctca ccgccgcgag aaattgacaa agaaatcgtc gtccttctac ggtcactcat 60
cgccgccttc catgtccggc gaaccgatcc ggccggccgaa gacggtgccg gatcttttgt 120
cggagaggca ccgcgcgggt ttagcgacgc cgccgacgga tggtgtgcca aaacagccgc 180
caaagttgtt gttgaagggt actcccatgg gaagcttggg accggtgcag gttgtgatga 240
cgccggaatc gacggtcgga gatttagtgg cggtgacggt gaggcaatac gtgaaggaag 300
gtcgccggcc aattttaccg tcgaacgacc cttcgcactt cgacctccat tattctcagt 360
tcagcctaca aagttcggat agggaggaga agctgatgga tattggatcg agacactttt 420
ttctgtgtcc gaggaagtgt ggtggtaatg gggacgcagg tagtggaacg 470

<210> 4328
<211> 462
<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220063c12d1
 <400> 4328

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cccgacatct aaatgtcaaa catcagtgac ttttattacg caagagtcta gacattatac 60
ccgtgtcaaa catcacagac gtattttttt acaagcaaca gcaggccatt cactcactga 120
tgcattctaa aattaaaatt aaaaataata aaaaaatatt tccaaataac atgtggctgg 180
catgggcaaa cactagtagc ctccaataat aataataatt tttaccgaga gaaatccatg 240
aaccttaacc aaccaaacgc gccacccttg ttcgttttgt cagcctctct tgaacacgaa 300
ccaaacggcg tcgttccact accctcgtcc ccattaccac cacacttctt cggacacaga 360
aaaaagtttc tcgatccaat atccatcagc ttctcctccc tatccaaact ttgtaggctg 420
aactgagaat aatggagggtc gaaatgcgaa gggtcggtcg ac 462

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<210> 4329
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063d01a1
 <400> 4329

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tccacttttc ttcaaagtct tcattctcata tcctctttgt tgtgtcctca cagcagtgta 60
ggaacggcat tattgtgatg gagagccagg atctttcttc gccacccac gtggacgcat 120
ctcgaccgtc ccttgggttc cccttgggca ctgcccttct cttgatcatc atcttcacct 180
tgagtggcgt cctctcttgc tgctaccatt gggatagggt gtgttccttc cgtcaatctt 240
tctctgattc cgaaccccaa atgccttctt caccaccaa atctaagcac tccaaggaat 300
tgaagcaaaa caggggacaa agcttgccag tgttgatgcc aggggatgat gtgccaaagt 360
tcatagccat gccgtgtccg tgccagcctt taagaccaga cagcatcggt gtcaccgtcg 420

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<210> 4330
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063d01d1

<400> 4330

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aggacccacg cttaacagta aatgggttagc tgctgttgct aagctctaac tatatgaaca 120

acacgtaact accttcctg cctacgatct acccacagct tttaccccat tccccaagcc 180

cttctatacct aattggtaga tatcacaatg cttgggttagc tgcttcgtcc tagctgaatg 240

cctctggtgc atagcttcat cttcaacgtg cgtctcagat gcaatatcca ccatctagaa 300

actgcttaat agtttagata ctacacaagg atggattgaa tcaaataaaa ttgatctcaa 360

aatctacgaa ttgacctgca accctaccta tcccttatta ttttattttt tttgcatttt 420

atttcttaca ctctaatttg ggtgaacaaa atgaatatca ttagta 466

<210> 4331

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220063d02a1

<400> 4331

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tgtttgttca gacaatagat cctgagcacg aagacaaatt tgactttgac cctcttgatg 120

ttactaagac ttggcctgag gacattatac ccttgcagcc tgttggctgc ttggctcctga 180

ataagaacat agataatttc tttgctgaga atgaacaact tgcattttgc cctgccattg 240

tggttcctgg tgtatactac tcagatgata agatgcttca aaccaggata ttctcttatg 300

ctgattcaca aaggcacaga cttggaccaa actatctgca acttctgct aatgctccca 360

agtgtgctca ccacaacaat catcatgaag gtttcatgaa tttcattcac agggatgagg 420

aggttaatta ctntccttca ggtatgatcc tg 452

<210> 4332

<211> 550

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220063d02d1

<400> 4332

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atggagttat gggtacacaa ctaaaattgc aagaaatgga taagttcttt caaattgatc 120
gaaaatcaca tccttatcgt actctttgca cgtctgcaac tctaacaatc attctggggg 180
tggcaacaac attaaatatt tggcctcatg ctcagacgag atgctatctt ttggcctaga 240
gaacggtcag cctgagacca gtaagatata cagacactgc ggatttcatt ggtgacccgt 300
gggtcagata aagcatcaac ccatcggcga ttaaattctat cttgcctgtc aggtgcccac 360
gatcggatc tctctccggg ctgcttaaag ttgttctct tctcaattcc acacttttca 420
cgccttcac tgcagatagc aggaggtatg gggaacgtt ctgcatgacg aacaggatca 480
taccttgaag ggaagtaatt aacctnctca tccctgtgaa tgaaattcat gaaaccttca 540
tgatgattgt 550

<210> 4333

<211> 416

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063d03a1

<400> 4333

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agtgcgccc gcctctgct tccgccgag ttcctcgcc gagacacca cagaaccctt 120
tcgaactccg atttcagctt cccttcggag ttcccttacg agttccgagt gtcttctccg 180
ccctccacgg agaccgagag cagcgacggc gaagaggact tgctcgccgg cctcactcgc 240
cgactcagtc agacctcgt tcacgaagct cgcaagcagt tctctactgg ttcggagatt 300
ccaaggaaga cccgtcaggg ttggtcggg tcccctcagt cgacgctcgc cggaatcggc 360
agctgggccg gtctgagcac catttcggcg aaggaagccc caacgggtac acgcgt 416

<210> 4334

<211> 393

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063d03d1

<400> 4334

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aaaattgggg ggggatttta aaagggggaa acccccatt ttaaaccccc ggcttgaaac 120

ttggggaaag gtgaccccc ccataccttg ggctaaaacc ccattagtt ttttccccct 180

aacccttacc caaaaaaaaa cccccccct tatcccaatt tattcccttt aaaaaaaaaa 240

gggggaaaaa aaaaaaaagg ggaaaaaaaa accttgccaa aaaaggggat cctttaaaaa 300

tttcttccg gtaaaaacc ggtcccaaaa gctggaaggg aaccctttt tttctaaact 360

tgccaaaacc atttttcaa attattttt tgg 393

<210> 4335

<211> 617

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063d04a1

<400> 4335

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agcacagacg gtaatgttt gagcaatcat gaagcagta catatgccaa tacatggact 180

tttctagtgc ctgacctgt atgtgacgtg gccataaagt tattgtggaa gttctattta 240

gacttagagg caatttctgc tagtagctca gaggtcccat cagtattaga gttcctgcag 300

cggcggaagt tggagctaa caaggctaaa caattgtgct tgggtatagc acgtgcactt 360

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tactccatt caattaaaac tggtagctta ttaagggac tgaaaccaga gaagtcac 480

acttctgttg tacaaaatac tgggtctgag gtatctgcta tcgaaacaga tgtaattggc 540

aatcaatca ttcataatc tacgagaaga gtagacagt gatctcttaa tatagcgtca 600

actgtttcaa gtttgga 617

<210> 4336

<211> 561

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220063d04d1

<400> 4336

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aactaggagg acgtttatth aacctacaac atgaaactat taccaaactct attatgtatc 120
taatagaaac cggatgtcat aatgaggtaa tcgacacggg tgaacaagaa tacccaatga 180
taatgacct aattttctcc cattttttac ttctcaaaca gtcgtggatg agttcatttc 240
attcagtatg cagcagtatc tattatgggc tgagggtgth ttgaagccag gaaggaaatc 300
tgtaaagaat cttagaaccg cagcaagatg ttggggagtca ttggaaacaa atgctgcttc 360
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aaggtagtat ccacctgca caagcagtaa aacataatca tgatgtaaac caagttgtct 480
tagcatatcc agaccaagct tcctagnttg ggcattctgg cggccagact ctagtaagtg 540
tagtgcaact ttttagagga c 561

<210> 4337

<211> 510

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063d05a1

<400> 4337

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agtcagtctg tgacatgtca aaggtttggg agaaatttga ccttgagatt gctgctacac 180
gaatgcctga gcaatatcaa aataaaatgg ttggatcct gtgcaatgac tgtggtaaaa 240
cttctcacgt tcagttccat tttgtggctc aaaagtgtcc gaactgcaaa tcctacaaca 300
cacgacaaac atgaagcgga gcacgtggcc acgattatc attggcttca tcaaaagcct 360
tcactcgaga gctctcttga tggtgcgtga ctctgaagg cagtgaaaat agatgtgcat 420
ccattgggta cgtggatgtg cacgtgtggg aatttggagt gcatgatgag ccacattcag 480
agggataaaa ataatgggtc ctacatgtga 510

<210> 4338
<211> 526
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063d05d1

<400> 4338

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actattccaa ctactagggg agccccaaca aattaaacca cccactcca aatcaacata 120
agaaccatta ttttatccct ctgaatgtgg ctcatcatgc actccaaatt cccacacgtg 180
cacatgcacg tacccaatgg atgcacatct attttactg ccttcacaag tcacgacaac 240
atcaagagag ctctcgagtg aaggcttttg atgaagccaa tgaataatcg tgggcacctg 300
ctccgcctga tgtatgtcga gtgtttagg atttgcagtt cggacacttt tgagccacaa 360
aatggaactg aacgtgagaa gttttaccac agtcattgca caggatccaa accattttat 420
tttgatattg ctcacgcatt cgtgtagcag caatctcaag gccaaatttc tcccaaacct 480
tgacatgtca cagactgact ttgaacagat agggcatgca tacctg 526

<210> 4339
<211> 251
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063d06a1

<400> 4339

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tctctgtgat tttctaattgc atgccaactt gatagtgttt ttatgtctca actgaatttg 120
tctccagctt gtggctatatt tatgttattg cattcgggaa tgtatatatt ctaggagttt 180
gtctgagatc tatgatgatg tgtttgttac aataatatta ataataattg gtacatcatt 240
gtgaataata t 251

<210> 4340
<211> 251
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063d06d1

<400> 4340

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agatctcaga caaactceta gaatatatac attcccgaat gcaataacat aaaatagcca 120
caagctggag acaaattcag ttgagacata aaaacactat caagttggca tgcattagaa 180
aatcacagag accatgtaga attgagaatt cctcaaccaa ttgactagca aacttccttg 240
aagcattgca t 251

<210> 4341

<211> 539

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063d07a1

<400> 4341

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gaaacaacag ttctgcatgt aggaaatcgc atgcacaacc tggaactttg agcaagttga 120
agctgaatct tttgaagagg catagcttgc atgtagaagt tcaaaaatac ttctacaagg 180
ttgttctgac catgaaatat tctataacat ttataacaga gaaacttgac tacctctagc 240
atacaattaa gaagctgctt aagatgaagg acacattact aacattacgg acatgtattg 300
tatacaactt gttaaagcca ctgaaatttc tgggtgtcttg gagtattttg tgatttgtga 360
tttgtcattt ttattttatt ctctatgcag tagttattgt gttttcagtc taaagtgcaa 420
tgagttaagc tttgtaatta agttgcgcgg gtggctcatt aagatgttac gtagaagtaa 480
cttacgctct gtttggaagc catattgtat cagaacaaat gcattctgct gtagtactg 539

<210> 4342

<211> 421

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063d07d1

<400> 4342

cattcataca gtaaaatgca tatgtttatg atacaatttg gcttacaaaa cagagcgtaa 60
gttacttcta cgtaacatct taatgagcca cccgcccaac ttaattacaa agcttaactc 120

attgcacttt agactgaaaa cacaataact actgcataaa gaataaaaata aaaatgacaa 180
atcacaaatc acaaaataact ccaagacacc agaaatttca gtggctttaa caagttgtat 240
acaatacatg tacgtaatgt tagtaatgag tccttgatct taagcagggt ctttaattgtc 300
tgctacaggt agtcaagttt ctctgttata aatgttatag aatatttcat ggtcagaaca 360
accttgtaga agtatttttg aacttctaca tgcaagctat gcctattcaa agattcggct 420
t 421

<210> 4343
<211> 560
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063d08a1

<400> 4343

caaccaagct tctctgtag aacaaaaaaaa ataagaaaaa ttggcgatcat aaggggccaaa 60
gggtgggaaag ttgaagtttt ttgttgaggt gaaagtgaaa tgggtggcaa ggatagtctg 120
agggctgagg acttgaactt gtgctttgag aaacttatga tgggtggctgg gagtgggaac 180
ggtgagaaag ggggtgaactc gaagggtggg gtgatcaccg agtgggaagga cattcctgtg 240
gagcttttga tgcagattct gtcccttgtg gatgatcaga cgggtgatcac agcttctgga 300
gtttgtcgtg gatggagaga tgctatttac tttggacttg ctcgttttatc actctcatgg 360
tgtagcaaga gcatgaataa cttggctcta tctcttggtc cgaaattcgt aaaactgcaa 420
actctaattcc ttcgtcaaga caagcctcaa ctagaggata atgctgtcca gactattgca 480
aaatgctgtc atgaactgca gattctggat ctcagcaaaa gtttacgcct actgatcatt 540
actctatgaa cctgccttgt 560

<210> 4344
<211> 320
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063d08d1

<400> 4344

gttaacactt tcgtttattt ttgtacaaa actacgaaat atgatgatgg acacttctga 60

ggcctataag tcacaaaacc gaggaaacta ggaaaaggaa aaaggaggaa taccctggga 120
aacagaaact ggaaagacta aaaagagggg cccaaaatac aataccatag ggcaaaagag 180
ggaaaagcaa aaccaggatg aaggataggg tgcggactct tgagcccccc gggaaagctt 240
gacctccaag agtccccgaa taaaatcctg ccatgatgaa gcgcaaagaa ccaccaacct 300
ttgaagcact catcgccgga 320

<210> 4345
<211> 602
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063d09a1

<400> 4345
ctcggaaattc ggctcgagca aacactttgc catctctgca aaaataccag aattcacaaa 60
caagaacaga acattggtcc ttcagtattc tgtaaaattt gagcaagaga ttgaatgtgg 120
tgagggtac atcaagcttc tctctggatt tgtaaatcaa aagaagtttg gtggggatac 180
accatatatt ttaatgtttg gaccagattt atgtggcacg gatacaaaga agtccatgt 240
gatactctcc taccacggtc aaaattaccc cataaagaag gacctgcaat gtgaaactga 300
caggttaact catttctaca cattcattct caggccagat gccacataca gtgtcctggg 360
tgataataga gagagagatt ctggaagcat gtatacagat tgggatattc ttcctccacg 420
aaaaatcaaa gatgtcaagg ccaaaaagcc tgcagactgg gaggaaagag aatacattga 480
agaccctgat gatgtcaaac ctgagggata tgattcaatc ccaagagaaa ttcctgacct 540
anatgctaaa gagcctgaaa actgngatga agaggaagat gggaaatgga aaccaccaa 600
ga 602

<210> 4346
<211> 363
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063d09d1

<400> 4346

ccatggccct ttgtatgctg gatttggtat cttggggggt ttccatttcc catcttcctt 60
 ttcateccag ttttaaggct ttttaccatt tgggtaagga atttatttgg ggattgaatc 120
 atatccctca ggtttgacat catcagggtc ttaaagtgtat tctctttcct ccagactgc 180
 aggctttttg gccttgacat ttttgatttt tcggggagga aaaatttccc aatctggata 240
 catgcttcca aaatctttat ccatattatc aaccaggaca ctgtttgtgg catctggcct 300
 gaaaatgaat gtgtcaaaat gagttaacct gtcagtttca cattgcaggc cttcttttat 360
 ggg 363

<210> 4347
 <211> 561
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063d10a1

<400> 4347

gtttccttcc cttccctaac gatctgagga agacaccaag cttctctcca cgcccttctt 60
 gggtaatctg aagtgcagcg atggcggatg gattgcactc gcggcatcca tcagtagttc 120
 agaagttatc tggacagtct tatttggtgt ctaggcttgc ccctactcac tcaagaaact 180
 attccacaac tggtagttac ttcaatggag gcttgcagtc ttcggggttg gttccagtca 240
 tggcacatgc accggctgag aaaggagtgt ctggattttt gttggatttc atgatgggag 300
 gagtgtcggc tgctgtgtcc aagacggctg cggctccaat cgagcgagtt aagttgctca 360
 tccaaaacca ggatgaaatg atcaagagtg gtcggttgtc tgaaccatac aagggaatcg 420
 gcgattgttt cagtcgaacc atgaaggatg aaggggtgat tgctctctgg agaggaaaca 480
 ctgctaattg tatcagatac tttcctactc aggctcttaa ctctgctttt taggattatt 540
 tcaagaggct tttcaatttc a 561

<210> 4348
 <211> 382
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063d10d1

<400> 4348

gggggggggg acaaaaaatt aaaaaaaaaa gggaaaaaaa aaaccaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaagataaa aaaacaaaaa aaaaggggaa aaaaaaaaca caaaaaaaaaa 120
 aaaaaaaaaa agaaaaacca aaaaaaaaaa aaaggttgaa aaaaaaaggg gagaaaaaaa 180
 aaaaccccca aaagggggga aaaccaaaaa accccttttt taaacaaaaa ttaaaaaaaaa 240
 aaagggggaa aaaaaatatg ggccaaaaaa agggggggcaa aaaaaaatgg ggaaaaaaac 300
 ccccccgca aaaacccttt ttttttcaaa aaaaaaaagg gggagcttaa aaaaaaccgg 360
 gagggcccta aaccccgga aa 382

<210> 4349
 <211> 151
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063d11a1
 <400> 4349

caactttggt ttagaaaaaa caaaaaagac tatcctttgt tacatctgga tcagtctttc 60
 tggaacagaa acctttgacc tttatagtaa ggagccagga tatgagaaaa ctttatcccc 120
 gtgggggatgc atataggcat ttcttcttta t 151

<210> 4350
 <211> 151
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063d11d1
 <400> 4350

ataaagaaga aatgcctata tgcaccccca cggggataaa gttttctcat atcctggctc 60
 ctactataa aggtcaaagg tttctgttcc agaaagactg atccagatgt aacaaaggat 120
 agtctttttt gtttttctta aaccaaagtt g 151

<210> 4351
 <211> 137
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220063d12d1

<400> 4351

gtacaaacag caacgtacat cgggtgacgag agcaaatgaa aggcattctag catcacagct 60
ttcatgtagc acgagaatat tgtccaccta aattacaaca gaatacactt catcctattc 120
ttcggggggg gggggggg 137

<210> 4352

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063e01a1

<400> 4352

ctcaaattgga agaactgagc atgagattga actctctgaa cgaaatgata agtttgatta 60
actccaccac caccaccaac aactgcttga tgttcgatga ggcacaggag actacgactc 120
agttgttcaa tgattgtggc ttcatggatg cttggaatta cggaatacca ctcaatcaac 180
aatcatggc ttacgctgac aatgacatgt tgatgatgta ttgattggtg aaattaattt 240
tgagttggag tttttgtgaa tcctggtgct aatcctttgt aacacaacta caacacgtgt 300
ttgttgtctc ttgttttaac ttgttttttt gtttttgttt ttcttgtaat aagtaatgtc 360
tattggtttc agtttatgtt atgtttaggg tttgctttgt gtattttaag aggggttatt 420
ctttcttctc gaaaatgtaa aaaatcgagc ttttattttc atgtagtagt atatgtgatt 480
tcgtgatttc cactctataa ttaaattctca gctatgc 517

<210> 4353

<211> 419

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063e01d1

<400> 4353

gcataagctg gagatttaac tgatatgagt ggaaattcac gaaaatcaca tatactacta 60
catggaaaat aaaagctcga ttttttacat tttcgagaag aaaaaataac ccctcttaaa 120
atacaciaag acaaccctaa acataacata aactgaaaac aatagacatt acttattaca 180
agaaaaacaa aaacaaaaaa acaaattaaa acaagagaca acaaacacgt gttgtagttg 240

tggtacaaag gattagcacc aggattcaca aaaactccaa ctcaaaatta atttcaccaa 300
tcaatacatc atcaacatgt cattgtcagc gtaagccatg atttggtgat tgagtgggat 360
tccgtaattc caagcatcca tgaagccaca atcattgaac aactgagtcg tagtctcct 419

<210> 4354
<211> 363
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220063e02a1
<400> 4354

ctccaatgga agaactgagc atgagattga actctatgaa ctaaatagata agtttgatta 60
actccaccac tatcaccaac aactgcttga tgctcgatga ggcacaggag actacgactc 120
agatgttcaa tgattgtggc ttcattgatg cttggaatta cggaatacca ctcaatcaac 180
aaatcatggg ttacgctgac aatgacctgt tgatgatgta ctgattggag atatttattg 240
tgagttggag ctgatgtgaa tcctgggtgct aatcctttgt gacacaacta caacacgtgt 300
tagttgactc ttgttctaata gagcttgtct gtgcttgatc atcttgtgaa aggtatgtct 360
att 363

<210> 4355
<211> 523
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220063e02d1
<400> 4355

gcatatgctg gagatttaata tgatatgagt ggaaattcac gaaaatcaca tataactacta 60
catggaaaat aaaagctcga tttttttacat tttcgagaag aaaaaataac ccctcttaaa 120
atacacaaaag acaaccctaa acataacata aactgaaaac aatagacatt acttattaca 180
agaaaaacaa aaacaaaaaa acaaattaaa acaagagaca acaaacacgt gttgtagttg 240
tggtacaaag gattagcacc aggattcaca aaaactccaa ctcaaaatta atttcaccaa 300
tcaatacatc atcaacatgt cattgtcagc gtaagccatg atttggtgat tgagtgggat 360
tccgtaattc caagcatcca tgaagccaca atcattgaac aactgagtcg tagtctcctg 420

tgccatcatcg aacatcaagc agttgttggg ggtgggtggg gagttaatca aacttatcat 480
 ttcggttcaga gagttcaatc tcttgcacag atcttccatt tga 523

<210> 4356
 <211> 467
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063e03a1

<400> 4356

gagttgatga catcacatac tggcattagt agaggttttg agaattctct agtaggaggt 60
 tggagagagt caattgcac taatagataa ggtccaccat accagttttt taaacgggca 120
 tcagaagggg atgccaccaa attttgattt tccatagcac cttttctggt caaagtgtgg 180
 aggagatcat gaaaattgtg ggagaggcaa gggaccctcc tccagtatct aggcttgtca 240
 aaggtttttg ctgggagggc aaagaagatg aaggggaaga agacgtggag gaagaggagg 300
 atgaagaaga cgagtatgac aagaggggtca aagaggttca tgcaagtgga gaatttcaaa 360
 tcagttaagc agtataataa ttcttgtgta cttggttaaa gtattattat tctttatgct 420
 agaagtcac tatttatgtg tactataatt tataataact actataa 467

<210> 4357
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063e03d1

<400> 4357

catctactat attactatta aaaagcattt taagctttta ctatgcgggt tacaacaggc 60
 atgagtaatt ttgaagtaat cagataacta ctgttctcat acacggcttc catggtgata 120
 caggtaatac taatacatta catggaaagt gccataagtt agactgcctc gatggtttat 180
 agtagttatt ataaattata gtacacataa atagatgact tctagcataa aaaataataa 240
 tactttaacc aagtacacaa gaattattat actgcttaac tgatttgaaa ttctccactt 300
 gcatgaacct ctttgacctt ttgtcactact cgtcttctta tctctttttt ctccacgttt 360
 ttttcccttc atctctttgc cttccagcca aaacttttg 399

<210> 4358
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063e04a1

<400> 4358

cctcactctg ccaactaaag agagtagaac actttgagcg aatggctacg ttttcaattg 60
 ggacacacac ttgtccatgt tccagcattt gcataattct agacttccac ttcattggctt 120
 ctgcaccggtt gaatcatcac ctttcttttg ctcctcttcc tgcagaatct gtttcacagg 180
 taccctcccc acgttgctcc gtcacaatgt attggcacgt gccgaagata aggccagaga 240
 ccctacacct tcttcttttc agcctcaaca aagctcacag caacagtttc agaacttgac 300
 accagaatct gggagtgttg atccccatg ttactcgcg gaaactagct cacaagagtt 360
 tgaagacagc taccagccca agactgattt cctcaaagct gttgcaatat tagcagcagc 420
 tgcaactgga gcactgacaa ttaaccattc atgggtggcc actaatcagg atcttgctat 480
 ggcattgcta tttgtaatag gatatgcaag catcatattt gaagaatctc cagccttcat 540
 aaaaagtgag tgggactggt gat 563

<210> 4359
 <211> 359
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063e04d1

<400> 4359

ttgtcgtcct tttttttttt tttttttttt tttttttttt tttttatttt ttttagtgat 60
 gtatggatta ttttttcttt ttttactttg gtttagaaaa gtttcccga gaaatgaaca 120
 acaacgacaa ccacagcgac agcaaaaaca ccaaaaaaac caagagagaa agaggcaaaa 180
 aaaaaaaaaa aaaagaaggc gacaaaaaga aaaaaaaaaa gccaaaaagc aaaacaaaaa 240
 gacagagaga gacacccaga gaaagggaaa gcagggacca gagggaggaa aaggggaaaa 300
 cgagcgagga gacaagaagg cgaagcgagc acgaaacccc gggacggaaa cgcaggggc 359

<210> 4360

<211> 505
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220063e05a1

 <400> 4360

 ttgatgtttc ggtggcgatg cttgctcgcc ctggtgcaaa catcttgctt ccaaggccag 60
 gcttcccaat ctatgaactt tgtgctgcat ttagaggggt tgaagtgagg cattatgac 120
 tgcttccaga gaaaggttgg gaggttgatc tagatgctgt tgaagctctt gctgatcaga 180
 acacagtggc gttggcgatc ataaaccctg ggaatccttg tgggaatgtg tacagttacc 240
 accatttggga gaagattgct gaaactgcaa aacgggttgg aacaattgtg atctctgatg 300
 aagtttatgg tcaccttgca tttgggagca agccttttgt accgatggga gtttttggct 360
 ctactgttcc tgctctcact cttggctcac tttctaagag atggatagtt cctgggtgga 420
 ggcttggttg gtttgtgaca catgatccat ctggcacttt tagagaacca aaggtagtcg 480
 agcgtatcaa aaagtattct gatct 505

<210> 4361
 <211> 542
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220063e05d1

 <400> 4361

 cttgtgtagt atactagtag taaaggcca tttatttagt aattttactt ataagtgaat 60
 tcactatagc tttacaattt tcttgcacgc ctttgataga aagattttat cttctcata 120
 ccctctcaa gagcagatgg atcagcagcg aaagtaatac gaagccaatc ttttaggcct 180
 actgcagttc ctggaagaat gatcacagat tcctcctttg caagtttgaa acagaagtca 240
 atatcatcac taatatcttc cagaagtgaag aggtttaatt tcaccatcat agccatggat 300
 cttctggtt tgtaaggga aaaaatgcag ggaatatcct ctatctcttt acaacatata 360
 tctgctgtat gcctcaaatt atcaatgggtt ttctcgaaga aaatttcttc ggtatttgca 420
 attatctgag gtacagcagc ctgcaagaag gttgctggac ctctagaag atcaaaatac 480
 tttttgatac gctcgactac ctttggttct ctaaaagtgc cagatggatc cattgtcaca 540

<210> 4362
 <211> 585
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220063e06a1

 <400> 4362

gagaaaagga ggagcaggag gcatcaccgt taccaaacat ggtgaaaggg cgccaaggag 60
 agcgtgttag actttacgtc aggggttcaa tacttgata caagagggtcc aagtcaaadc 120
 aatacccaaa cacctcatta atccagattg agaatgtaaa cactaaggaa gaagttgcgt 180
 ggtactgtgg gaagcgtatg gcttacatctt acaaagccaa ggtaaagaag gacggaagcc 240
 actatcgctg catttgggggt aaggtcacca ggcctcatgg taacagtgggt atagttcgtg 300
 ctaagttcaa gtccaatctg ccgcccagat caatgggagc aagggttaga gtcttcatgt 360
 atccaagcaa tatatgaggt tctcaggact cgtgagtcgt ggagcttggt ttgtcagggt 420
 atttgatagg aatttatatt atgggtcttct tttctggtag ctctcgagca gggtagtagc 480
 cttgttttagg atgaagagaa tgtaccgcat gttttttctt tattctcact gccatgggta 540
 ttanggaggg atatgagtct caattcatta acggatctttt ttcct 585

<210> 4363
 <211> 463
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220063e06d1

 <400> 4363

aaggaaaaaa aatccgttaa tgaaattgaa actcataatc ctccctaata accatggcag 60
 ggagaataaa gaaaaaacat gcgggacatt cttttcatcc taaacaaggg tactaccctg 120
 gttgagagct accaaaaaag aaaaacataa tttaaattcc tattaaatac cctgacaaaa 180
 caagctccac gacttacgag tcttgaagac ctcatatttt gcctggattc atgaagactt 240
 taacccttgc tccattgat ctgggaggga gattggactt gaacttagca cgaactatac 300
 cactggtacc atgaggcctg gggaccttac cccaaatgca gcgatagggg cttccgtcct 360

tttttacctt ggctttggaa atggaagcca tacgctttcc acagtaccac gcaacttggt 420
ccttaggggt tacattctca atctggatta atgaggcggt tgg 463

<210> 4364
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220063e07a1

<400> 4364

ccccctctct ctttctctct ctttctaaaa accagaaaca acaaacacaa accgaaaagg 60
cgaaaggggt tttccgagtg agatctaggg tttccatcga ttcggagaga ggatattgat 120
agaacgacct caacgagcaa ggtcaggagg tggagtacta gaacatggat tcggtgcctt 180
cgaattcgca tggaaacctc gatgagcaga tttctcagct catgcagtgc aaaccttgt 240
ccgagcaaga ggtaagggtc ttgtgtgata aggcaaaaga aattttgatg gaagagagca 300
atgtccagcc tgtgaaaagt cctgttaciaa tttgcggtga tattcatggg caattccatg 360
atcttgcaga gctttttcca ttggagggaa gtgtccagat acaaattact cgtttatggg 420
agactatggt gatcgtgggt attattctgc tgaaactggt ancgctttgg ttgcccttaa 480

<210> 4365
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063e07d1

<400> 4365

aaaaacaaga ctacctatat tagaatataa ttctcacaag acgagtaaaa aatcataaat 60
taaaagatat gttcaaagca ttatcaatct acagaaaccc acccccttaa caataatcct 120
aagttgagaa aagaaaagtc aagagagttg caaataaata gaaaaggaaa aaaaagggga 180
aaaaacatta aaactgatac attgcaagct ggaatgatac acatgccac aatagcatcg 240
cctgctgctc agcttccact tggaaagatt cagttataat tcaagtaaac aacacatcca 300
ccgaagccta acttcgaaaa tataagtatc aatatgattc atggctctga tttggacaag 360

gagatgagct tgcacattac tgcagggcat tagttgctgt gctggtaaca gcaactcaac 420
 caaaatagta tcataggaag taatcaggtg ttctcctggt tacatctggc tctccccctcc 480
 ttggagcttg ctcaaactga atgaat 506

<210> 4366
 <211> 270
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063e08a1

<400> 4366

cacaacggat cgtgatggat catcttcaag accaatggcg gacaagaaaa agggcaggtg 60
 ggaggaaggc taactctgaa gcaaatgatg taaagccatg tgctatggat gtggacaagg 120
 caatggtatc ttatctgacg tctggtacaa agtcaactga aaaagatgat tcagaggaga 180
 ctccaagac aaaagtgcc aaggagactca attcacgaac tgaagctgag tctaatgcga 240
 aggaatatgg acgaaacctt gctgggttac 270

<210> 4367
 <211> 364
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063e08d1

<400> 4367

aagccctaag caatctaaaa acgttaattg ggtggataga cactagtaag tagacattag 60
 tcaacctgtc agcatcaggg agtgccaaag cattcgctaa attaagaaag ctagcacaat 120
 attttcaggt gtatacctta aaatagcatt catctagtct actaaagaag atggaagagt 180
 aactagagat actaaccat actacaacta aactagccta actgataact ggagaaaata 240
 atgctagcaa catgaagatg attaccacaa acgactcagc tacttgatac acggactaaa 300
 tgcattcgaa cactctggcc taaggaagaa aaaagttaat gctgtaagca caagacaggc 360
 accc 364

<210> 4368
 <211> 487
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220063e09a1

<400> 4368

gaagccagcg agtgagtgag cgagccaggt aggggttttcg gtgttcccct ctttgtgttc 60
gttcgcgacg atgggggtcca tccccgatcc aggcgagttg agcgagttga ctcagccgag 120
cttcgacgag ttccagcgcc aaacctctct catgaccagc tgcaccctcc tctggaagga 180
gctctccgac cacttctcct gcctcgagca agacctcaac cacaaatccg aagccctcaa 240
gcgcaagatt cacaccctcg acaactccac ctccgactcc ctccgcctcc tcgaccaccg 300
cgaaacctct ctcgacgcca ctctccagat cgccctccgc acgctcgaca cgcgccgcac 360
cgctgctctc tccgccctcc tccacgacgc tgacgacacc tccccgacg gcgaggtcga 420
tgacaccgac ggctcgtcc tcaagctcaa gtccttctgc ctacgcatgg acgcgttcgg 480
cttcttc 487

<210> 4369

<211> 466

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063e09d1

<400> 4369

ccttcaattc gatcccaaga taagcatata atgtaaacac agtaagtctt tctacaacta 60
aaccgaacag tggtagttga gtttctgatg tttcttggcc gtcctagtta ctttccacaa 120
tcacctagta ctatgggatac aacattagaa atacaacttc tccccatgcc gagcaggaag 180
tgggacagta gttataatta acacacagaa ctgctaccgt taaacggta gtaattacaa 240
acaacattgc aaaagtaaata tggatcaagg tcgtcatatc agtggttacc atcttcaaag 300
gttgtcattt ctatcggtag taagcctgct gataagtggg agccaaaaca tttccatagc 360
cgccatatgc atgaggatag ttcattgggag ctgccgggta agaccctgca atagctggtg 420
ccggctcggg tgaataagca gcataaggat ttgctggggg acttct 466

<210> 4370

<211> 494

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063e10a1
 <400> 4370
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 tggctcttgcg agagaaagcc atgccagaga cgaagatttt tggcatgctg tttggccaaa 120
 cactcccat ccaagttcat tgcgagatct tctaaagcct ggccctgcaa gtgttgaaat 180
 cgatgatcac cctatgcaaa ttgaagaaac acagtaccgc aaaaccttct tctataaaga 240
 agaccttcat ccaggcaaaa caatgaaagt acaattcagc aagcctccct ttcaacaacc 300
 atggggtgtt ggtacatggt taaaggaaat taaagacact actaaagaag gatatagttt 360
 tgaagagcta tgcatacaaga aagaagccat tgaggagac gagaagtttt gtgcaaaatc 420
 cttgggaaca gtaattggtt ttgccatttc aaagctggga aagaacattc aagtactttc 480
 aagttccttg gtca 494

<210> 4371
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063e10d1
 <400> 4371
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 cacaggatga tgctctcttt aagtagggaa gcagatctta tcagtacaca taggtaggtt 120
 gaaattctag ctctagcaat ctagctagag aaggtagtag ttgcacaaca cacagcacat 180
 gataatttat tttatacaca atctcattct catggtgctc aagatgcatg gactaattaa 240
 gcaacaatgt tggcttgata ggcagtgtcc acagataaat tgggtaccca taaaatggcc 300
 ttgcttccaa ggaaatggca aacagggtta gttccaggat caactcccat aagttgatga 360
 agcatttgat gattcattcc agaagtattt gagtggcaaa tagcaagtgc ctgagttttg 420
 gttccatcac cagccaccaa tggaaccatg aaagctgttg tttcacggac ttcattggcag 480
 taaaatactg cagttctgaa aattagccta tgacaca 517

<210> 4372
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063e11a1

<400> 4372

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aacccccatt tccgcagttc ttaaatttgg agtctgatgt ctccgccatt gctgggttacc 180
gaagatgaag ggcagtgcc 190
tgctctgatg gtagcatctg catcttcacc atccctgaac 240
tgtttctccc taaatgaggc cggatttaaa gaatgcaatt acctgggatt gtcagattgc 300
tcttcggtgg acagttctac tgtccgaat ttgtctgatg agaaaaagga gaatctgaat 360
ttgaaggcta ctgagttgag gcttggcctt ccgggatccc agtcacctga aaggagagaca 420
gaactnttct cgttgagctc aacanaactt gatgagaaac cactgttccc tttgcttctt 480
acaaaggatg gaatctgctc atnggctcaa 510

<210> 4373
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063e11d1

<400> 4373

gattgcaaca tacattcaac ttatccaaac aaacatgttc ctataaagat tacaagctcc 60
acaattacta atattcaagg tagcttcata aggtattata gtagaaacaa atgtaacaca 120
aacaaaagac caagacacta ttatgatact tgtaaccata gacaacatct tgaatagcag 180
ttaaccatca aaacccggca ttcagtcatt tatatcataa gttctctttc cacactcttc 240
atgttccaat accaactagc acctgctcct ggatttttcc atggccctgg gagctaagcc 300
aatggcatca gaacccttca tgattttcag tcttttgcac gtgtcaatga acatatccca 360
tggtacatct ccgacaagca tccagtcacc atctttatct tcataagtga gtacatatcc 420
tgaaccatgc aggaggtcct tcagcttgct ctactcaac atttctcttc ctggagctcc 480

atgggaacca cattgaccta gaggtaaaca gctgaacatt t

521

<210> 4374

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220063e12a1

<400> 4374

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tccttaggcg gagatttcaa acacaacttc gcttattaaa tctcttcttc caattccttc 120

tttcattcat tcccaggctg agatggcagc ggcaccagca gctaccttca ctattggaac 180

caccggttcc ctaggccaaa gaggaaactc gcttctctca ttaaagtctt ctggggttgaa 240

attcaactcc cagaatcatt tgaagagctt ctgcggcctc aaggccatgt catccgtgag 300

atgtgagtca gattcgtctt tcttggttac ataactgggtg ctgctctgcy ggcgtctntt 360

gcatccaagg ctcanaagga caacgaccaa aacttcaact acaactcgca gcctcaggct 420

tcgtacaaaag ttgcaagtct tgggtgcttgc tgagggatag gtcag 465

<210> 4375

<211> 449

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063e12d1

<400> 4375

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cgacccaaaac ctaagctctg tatagagaac agaaatggaa gctccgtccc gttctactaa 120

caaaactgga agtagaattg atagttgatc ctatagaaag tttgaatcct aagttctgga 180

agcagtaaag atgctacaac aaatccgcaa cctaagttct ctaagtagta tttgggctaa 240

aaataaatcc ataacccaag aaaccacccg ttgaaaaaaa attaagcagc aacagcttgc 300

ttctgagcaa aagcaatccc cttctctatg ctggccatga gttctggctt aagtgattcc 360

aaagccttct gctcatagtc agtcaaccct tggaggtcag atggaattaa tgcctaaact 420

cctttcctac caagcttcac ccttgaagc 449

<210> 4376
<211> 318
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063f01a1

<400> 4376

cgcccttggt gtagtatgat ttgaaaccc ccaccggtc ttatgggtcca tggttcctcc 60
agcgttctat gattgcgagt cccatttcat taggggatga tgatgatgcc catgaacgcc 120
ataactgtca cgctactctt ggaaagagtc cagagccatc actgtcgtgg agtgggtcta 180
tagctcgta tacctttcgc atacaccagc ttcaactatg ctattcaaac cacagatgtt 240
atcttgtggc cgctcttatg tgggtcaatt gcttgaaccc tgccacttcc gtaccttggc 300
aattgcagcc ctccagtt 318

<210> 4377
<211> 385
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063f01d1

<400> 4377

gcaaaaactg gttatgtac accaatctct atctattatg aagtatatct acatgcagaa 60
tatgaaggcg gacttaacat actttcaata ttcaatcttt actgtatggg ctatgataga 120
tggaaccgta cactatggca catgttacat tcatcatacc ggaatgcac aatgatcaca 180
tactactaaa atttgcgat gacttgaaaa ggctacttat agggatataa agatctcgac 240
ttgcttgtag gcttgcaatg aactgaacgt gaccatagat ctcgagatca accaatgtcc 300
gtggggattg cactgccttg gctgtgggct ggacatcagc tatatttgac ggagcattgt 360
tatccacgaa agccatacac agaag 385

<210> 4378
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063f02a1

<400> 4378

cacatacacc aaaaccacca aaggttgagc ctactcattc accaaaacca ccgaagaaac 60
caccatgccc accaaagggtt aagcctccac atgcaccaa accaccaaag gttgagcctc 120
ctcatccacc aaaaccaccg aagaaaccac caagcccacc aaagggttggtg cctcctcttg 180
caccaaaacc accaaagggtt aagcctcctt attcaccaca tacaccaaag aaaccaccaa 240
gccacacaaa gggtaagcct ccacaaaaac caccagttaa gccaccatgc ccaccaaagg 300
ttgagcctac tcattcacca aaaccaccaa tccctaagat gccaccactt gctccagttg 360
caatctacaa gaagccactt acaccttctt gctacactcc ctaagttgcc accacttgat 420
gcagttgcaa tctacaagaa gccacttcca cctgttcttg cactccctaa gtttccacca 480
cttcatecag ttccaattac aagaaccact ttc 513

<210> 4379

<211> 482

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063f02d1

<400> 4379

gttgctatta aatgagcata aatgaactct tattctttga agagatatta gaaaacttaa 60
ctatccaatc acaatgcatt tgtatacaca tgaaattaat taaaaataaa tacaatgatc 120
tggtgtgtct aacttgcccc gatgatgatc ttcattcgag aacaacaata ttgatcacac 180
tcatacttaa catcacttta aacttcttaa tcataattgct ctattatagt ttaaattgta 240
tttatattct caccctagge tcatcacatg cctatcctt ccaaggcttt attagcaaca 300
aatagacttc ctcaatatac ttgatcatc ggaaagcaca aaaaagaaga cagaaaaaat 360
gcatgcatat tttgcagacc caacaagagt tatgatttac ctctgcaata ttaatatata 420
aagcctaagg atgagaggaa gaagggtgta ctgggaacca tttggggtga tggaaaaagt 480
gc 482

<210> 4380

<211> 419

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063f03a1

<400> 4380

tggctttccc ctccaaggcg atgactagca ggttctggtg cagcgtaa at cgaatgcgag 60
agttttgaca ctaaacagga ctaaacagtt gaatgccctc tctttttata tggtttctcg 120
gctacttgaa attttttctg aagatgagaa agattctgat attaaattgg ttgtcgtgaa 180
gggaaatgga agggcttttt gtgctggtgg tgatgttgca gctgttgctc gtgatggaag 240
taaagggtgac tggaggtttg gtgcaaattt ttttcaaagt gaatttaa at tgaattactt 300
gatggcaaca tatagtaagc cccaggtttc aattctta at ggaattgtca tgggaggtgg 360
tgctggtggt tctgtacatg gaagatttcg tgttgttact gagaatacgg tctttgcat 419

<210> 4381

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063f03d1

<400> 4381

acctggaaac tacatttatt agagtatcat actctgattc tcaacggtag acttcactag 60
ttttaaaatc ttatcaattg taacggtagc aattcataaa ctgccatata ttgaaacatc 120
caagaatcaa ttgaatggag caatacgtgt cttccatact ttggggettga aaatatgaga 180
atgatgatgc tttacagctt tgaaatagca tatgtaggca gattattaaa ctttttagga 240
agctccaaat ctttccatcc tttatcatca agtttagaga agtaacgatt aacatcgcta 300
tcactaagaa gtcccaattt ggaaggttcc cactttgggt ttctgtcttt atctatcagt 360
atagccctac aaccctcgaa gaaatccttg ctgtagtgct cttttagaat atgacaaaca 420
actctataat cagaaacaag gcattgtcca acaccttggg gccttccttg tctaatacgt 480
ctaagaaaga ttttaaggct tgttggagat gctttc 516

<210> 4382

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063f04a1

<400> 4382

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tattaattct actcgagttg ccatcttgag agatagggaa aaggatcgca gtgatccaga 120

ttatgatcgt aactatgaaa ggtatgctag gagtattcca acttcttctg ttaacttgat 180

gccttttaat ttgcaacaag ttcgacatcc atttgtgcag tatgataatg cttttaatca 240

gttgagtcag atgtcacaaa atcaagcttc acttggctat ggacctcaac caagccctat 300

gatgaatcct tttggtgtca cagggttgaa tcaggtgcct agggatgctg cttatgtaca 360

gtggccaagt gctgcagtaa tgtatgcaca ttcatatgac caatttagac aagctgtttt 420

ccaggctcca tttggtcaac gccattgag tttcgattat tcgcagaatt actagatgac 480

gtttgggaag cagttttcca tttggctgca taagttattt tagctattaa ggatttcaga 540

gtagatata cattttctgg actggtatag a 571

<210> 4383

<211> 588

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220063f04d1

<400> 4383

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tgtcgccagg aaataccaaa aacgccaaat acttgctacc accatcaaaa cttaaaaacc 120

agaataggaa acaaggatct ataacagtac agaaaaatta tatctaactc tgaaatcctt 180

aatagctaaa ataacttatg cagccaaatg gaaaactgct tcccaaactg catctagtaa 240

ttctgcgaat aatcgaaact caatgggcgt tgaccaaact gagcctggaa aacagcttgt 300

ctaaattggt catatgaatg tgcatacatt actgcagcac ttggccactg tacataagca 360

gcatccctag gcacctgatt caaccctgtg acaccaaag gattcatcat agggcttggt 420

tgaggtccat agccaagtga agcttgattt tgtgacatct gactcaactg attaaaagca 480

ttatcatact gcacaaatgg atgtcgaact tgttgcatat taaaaggcat cnaagtaaca 540

gaagaagttg gaaatactct agcatccctt catagtacga tcataatc 588

<210> 4384
<211> 476
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063f05a1

<400> 4384

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ttcaattcaa ccttacgtca aggaaatatt acacatcatg aatatattca ggttggtgaag 120
ggaagagatg ttgggctcaa tcagattgca ctatttgaag gaaaagtttc tgggtggtaac 180
ggtgaacaag ttctcagccg tgatgtatac agacttggac agctttttga tttcttccgg 240
atgctgtctt tctattttac aacagttgga tactactttt gtaccatgct aacagtgtta 300
actgtatatg cttttcttta tgggaaagcg tatttggcac tatctggtgt tggtgaaacc 360
attgaagaaa gggctaggat aactaagaac actgcactga gtgctgcttt gaatacacia 420
tttctctttc aaattggtat cctcactgct gtgccatgat cctgggctca ttcttg 476

<210> 4385
<211> 534
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063f05d1

<400> 4385

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tacactagaa aattgatgat acaactattc acaatgctga cgattttttac agaaatctag 120
gcttcctaca agaagattta ccgactcacc cccgcaaaat ttaaaagaca ccatagattg 180
tatctcgttt aggaacaagg cctgagccaa atacaactat atcccagtat tgggattgtt 240
cccagctaga ataagagaaa tttctaacc cgggctaaaa gcctgggtta acattaggcg 300
agtttggat gttgatacaa atgggaacca cgaaaagaag gcaatgggta caaagatgag 360
cattcccata ccagcatcat agaggcgagc aattgatcga acggatttcc atagtccgag 420
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gaaagccaac atagaagcca atatgtcccg taaagacagt tgggtcaaata tact 534

<210> 4386
 <211> 554
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063f07a1

<400> 4386

cgcttgaggc taggctacct ctgggacatt tgtgctgcta gttcatatat ttgcggctga 60
 caccgagaag gaaagcagga aaacaacaaa aaggagcaga tgggtagctc aggtttctca 120
 tggaaattgg cggatcatcc aaagcttcca aagggtgaaga ctgtggctgt tgaggtattg 180
 gatggttggg gagaggccac acccaatgag tacaactgca tccacaaggc tgaaacaccc 240
 tgcattggatt cacttaaaaa gggctgctcc tgaacgggtg agatttgtca gggctcatgg 300
 tactgctgta ggacttccaa cagaagatga catgggcaat agtgaagttg gtcacaatgc 360
 ccctggagct ggtcgcatat ttgctcaggg tgctaagctt gtcgaccctg ctctagcctc 420
 tggaaaaatc tttgatggag aatgtttcaa gtacatacag gaatgttttg aaaatggcac 480
 attgcatctc attgggctac tgactgatgg tggagtcac tccgacttga tcagtgcagt 540
 tgttgcttaa ggag 554

<210> 4387
 <211> 286
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063f07d1

<400> 4387

ccaggaaaaa gcgccgaaat acccagaaag gggtagacca ggtctggaaa agaaaaacga 60
 gaaatgctga agatactaga aaaaaaaccc ccccgattgg gcaggcggca aacacttgag 120
 tgctttaggg ggacacaaag gttcacccca tttttgcca ccttaaaaaa aaaaaaac 180
 tacttcgggt tacaagccat gaaaaactct ggccctacaa gcaccgaata aactggggca 240
 atcaacacga tcaaaggtct agcccaggaa acaccacagg gcaaat 286

<210> 4388
 <211> 485
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063f08a1

<400> 4388

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ccttcctaac caacacatat aaaaatcaac cctctcttct tcttctctct ccgcgggttg 120
agttgaactt caagaacctc ataaaaacct ttctctctct ctctctctag atctgttcaa 180
atccgaaacc atttccgctc taatttccaa gagcaaacc taatccgctc tctctgtatg 240
atactagatt tcccctctc aaaggcgctg ctttgtgtcg atttgtaaatt tcattcggtg 300
gttttaggtta gaatttttgc gtcaagtctt tagggttctg aatcgggtgag atgaatcaca 360
acaacagcaa caacaataga gcgaggtacc ctaccgggat gggacttgag cgcgggtggtt 420
tcaatccgaa cctgagccag aaccggaacc agaaccagaa cccgagcctg aaccaagatc 480
atcac 485

<210> 4389

<211> 291

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063f08d1

<400> 4389

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aattctgcaa ttgtaaaacg gaaccccaaa ctgaccccat tacctattgg cctaataaag 120
cgccatttta acctttttaa aggccttaac aggggttaagg gtctccaaaa ccagattat 180
atgtgagcgc tctcatatgg gggatacccc cattttgaca gagcatactc tcatgcccgg 240
ttgcaataat acacaatttg ccactagctt cttagcagat cttatcacc t 291

<210> 4390

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220063f09a1

<400> 4390

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aatccaaata atataaatag tatgcataga aacacaatat ttataatcc aaataaagtc 120
caaaatgggtt ttccactttt gactaaaaaa agaaaatatt ttgagaaaga taaaaaaaaa 180
actaatgaat ttcaaaattt ttctttggcc aaaatatcga ttagaagatt tagcttgtat 240
aaatcgatat tggtttaata cccataatgg aagccgtttc agtatagtaa ggatacatat 300
gtatccgcga atgaaaattc gttaatccaa atttgtcttc tatttaccat atttatatgg 360
taaatagaag acaaattaat atctatatct atctatatag atagatatag atacataaca 420
taaataaaga cacgcattat ggtatggcat tgataactaat tcactgatat ataccttaga 480
taaaaaaaga atccacaaaa ttatgttttt tttaagtata ccatttttta tggatgaatct 540
attaaaaaaa gctnctttat atc 563

<210> 4391
<211> 591
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063f09d1
<400> 4391

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ataagtctaa gaacaccatg cattgatggg tggtgaggcc ccatattgac tatcatgaag 120
tcctttcttg tagttgagat attcataggt ttttcctcga tttatttttt tatgaatcgc 180
ttaaaaaaaaa aagttcatca aaattcaaga tctaataaat cgaataattg agaattactc 240
ttcaatttaa cgaatttgtg actctcgaat atcaaactga tttattaatt ttttataccg 300
tattctatct ttctttgaca aataagacag caatctttgt cgttttccca aaattttacg 360
taaacctctt tgagataaat agtcttttcg gtgcaattca aaatgtgaag taagtcttcg 420
tattctatcg gtaaatttga atatttgaaa ttcaaccgat cctgggtttt tttctttttt 480
ttcttgtgaa ataacaggta taattgaatt ttttaccata aaaaaattaa agtnntttccc 540
ttctcttcgc ttttactttt gatagatatt ttgattgatc agaatagtaa t 591

<210> 4392

<211> 560
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063f10a1

<400> 4392

atttctcagt catggattct ctgtctcttc ttctctcccc ttatccactc tccaccaaaa 60
cccacaaatt cagcaccttg aaacccttct ctcatctctc aaaccctaaa ataccacctt 120
ctcaacccca ttcaccctct ctttctgcac tccaaacacc ttctcttaac tccctccaaa 180
accattaac aaaacctttc ttatcattta ccatgctcaa cctcttcact ccacttcctt 240
gcctcgctga cgtagcctcc gacgacgccg gaaaaataaa cctggaatcg gtgctgggtt 300
ccatcgacaa cttcttcaat cggtaccctt tttctgtcgc cggttgcacc tttatttggc 360
tggtggtgat tcctctggcg gaagagtact tgaagaagtg caagttcgtg tcggcgattg 420
acgcgttcag gaagctccgc gatgaccgca atgcgcagct gctggacata agggacgaga 480
agaacgtgag gtttctggag tcttcgaaat tgaaatgttc gagaaggaag tgcgcanngt 540
cgagtcgctg aggatgggaa 560

<210> 4393
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220063f10d1

<400> 4393

aagagtatat atactaaata tctagattga ttctgtttgt acagtgttta tggattgcat 60
gctttacact ctataaaact caacaaaaag gttgaaaaag aataattgta agtttagaaa 120
taaacgattt cacagtcacc aaattgtatt tctgtcttta cagaaatcat ttctgccaaa 180
cagatgtcag ccgagcatgg tataacaaac agaactattg tggctttgac ggagttggag 240
atgatggtgg cttcaaatcc gggtaattgg gataaggaga ggaggatgct acagaaccag 300
ttttcacttc tgaaataaac tctacagagc ttttcacatg accatcgtct gttgtttggt 360
tttcaacaga agatctatct tgggttaagg aactattatt gttactatca ttttgctgga 420

tggctccatt tncatttgn tngagtttct ttgaagcttt tacccttttn cttatatgca 480
cagaaggggg caaaagggaa tcc 503

<210> 4394
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063f11a1

<400> 4394

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tggctatgat gaaacgtgct gcttctcttg cgcttcgctc tcttattgcc tcatectcca 120
ccttcaccag aaaccttcat gcctcaggtg aaaagaagaa gattgtgggg gtgttctaca 180
aagggaaatga atatgctaaa ttgaatccaa attttgttgg atgtgttgaa ggtgcattgg 240
gaatacgtga gtggctggaa tcacagggc atcagtacat tgctactgat gacaaagaag 300
gacctgattc tgaacttgag aaacacattc cagatgcaca tgctatcata tctactccat 360
tccacccgc ctatgtcacc gcagaaagaa ttaagaaagc caaaaatttg gagctgcttt 420
tgactgctgg cattggttct gatcatgttg atctcaaagc tgcagctgct gcctgtttaa 480
ctgtggcaga ggtcacagga agcaacgttg tgtccgttgc ggaggacgaa ctcatgagaa 540
tc 542

<210> 4395
<211> 512
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220063f11d1

<400> 4395

ggagtgttcc ttaaactttt atttctgaga tcaattaaac gagttcaaat tcaacaaagc 60
aagtgcatta cataattaga gtgccttcta gatctttatt tgctcatatt cattggcctt 120
aaaattggaa gattcaaagg ccacattgac acacaccact tcacgggtat tggctagcaa 180
gttgaccctc cttcacaatg tagttttgtt ctggaaagtc ttcacccttg aagtgcctat 240
caagcatgtc tttgacacca gcagcataac gtaactgtgc atcaatggtg gtaccagaaa 300

tatgaggagt catggcatgg tttggcatgt agcgccatgg atgataccttt ggagctgggt 360
 gtgggaacca aacatcacca ctataacctg caacgtggcc actggagcaa gcatcagcaa 420
 ttgcttgagt gtccgcaatt gccctcgag cattgntaac aatcaagaca cctttcttgc 480
 acttagcaat tctatTTTTG tcaaacaatc cc 512

<210> 4396
 <211> 364
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063f12a1

<400> 4396

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 tgggtgattta gagcgctcaa ttaagtttta tgaaaaggct ttgggcatga aggtggtgag 120
 gaaggttgat aagcctgagt acaagtacac tatagctatg ctcggttatg gagaggagca 180
 cgagacaact gtgttggagt tgacatataa ctatggtgcg actgaatact ctaaaggaaa 240
 tgcttatgca cagattgcca ttggtactga tgatgtatat cagagtgctg aggtaagtaa 300
 ccaagtcata caggaggtgg agggaagatt actcggcaac cacggccaat tcctgtccta 360
 atac 364

<210> 4397
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063f12d1

<400> 4397

gataaactag tagattaatc ataggtagca tgcagaatga ggtttcaatt gcggttttaa 60
 gtcaacaaaa gaaccataa aagcaagaaa acaagttgat gactggtact gatacaaaac 120
 gcacaatgat aaaatgagag acaacttatt catacaaaag cagcaggact acttatttca 180
 tataaagctt gctcttcact tcagttcttc caaaaaatca acgttgtcaa ccaagacagt 240
 tttccatcca tctggatcta aaaacgaagt ggtttttgta ttaaggccag gaattggccc 300
 tggttgccga gtaatcttcc ctccaacctc ttttatgact tggttaacta cctcagcact 360

cttatataca tcatcagtac caatggcaat ctgtgcataa gcatttccct tagagtattc 420
 agtcacacca tagttatatg tcaactccaa cacagttgtc tegtgtcct ctccataccc 480
 gagcatagct atagtgtact tgtact 506

<210> 4398
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063g01a1
 <400> 4398

gagagtgtgg gagattgcga tgcccatcgt tttcaacata tgggtgtcagt tcggtgtcaa 60
 ctccgtcacc agcatgttcg ttggacacct cggcgacatt cagctctctg ctatctctct 120
 cattaactcc gtcattggca cttttgcctt tggtttcatt cttgggatgg ggagtgtcaac 180
 tgagacactc tgtggacaag ctttcggagc tgggcagggt aatatgcttg gtgtttatat 240
 gcaacgctca tgggtgatat tatcggtgac cagtatcttg ctcttgccca tatacatttt 300
 tgccgctcca attttgaagc ttcttgggtca acaggaagat atagctgac ttgcaggag 360
 tttctccatt ttagtaattc cacaatttct ttcacttccc ttcaattttc caacgcaaaa 420
 gttccttcaa gctcagagca aggttaaggt tattgcatgg attgggttgg tggc 474

<210> 4399
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220063g01d1
 <400> 4399

gaaaaaaaga ctttgagaac ttgactcgag tggaggtgga agatatacaa gattatgcag 60
 aagccactat cttatcaact ccaatgtctt gtccactcca tatccgcatg cgttcagctg 120
 tttgttccac ctctttcttc caattggttt tgtaaagtat caacaagagc agcaaggtct 180
 ggagaacaat tccacatata ataccacccc aaagtccctc aacccccaaa tttgctgtat 240
 aaccaagaac gaaccccagt ggaagcccaa ataagtaata acaacctatg ttgatgtagg 300
 ccaccagggc ttgccacca cttcaatag caacacctga aaccactggt tgaacactgt 360

ttagaaccat tgtcacagaa aggaggtatc ctagtttcgc aacggcctta tgcaaaacct 420
cactgggttg aaaaataatg gcataataat ctctagt 457

<210> 4400
<211> 547
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063g02a1

<400> 4400

ttccatttat agttgcagag caagaagttt gttcggagat ctgcaagctg gaaaatgtga 60
ttgaggaagc tgaaccact gatgatatcc agataaaaaa ccaacatatg gaagaaaaga 120
ctcaagcttt ggatttcttg caagaaatgg gttggcttct tcatagaagt catgtgaaat 180
ttaagctagg ttccatggct cctttccatg atctcttcca attcaatcgg ttcgcttggc 240
ttgttgactt ctccatggac catggttggt gtgctgtgat gaagaaactc ttggacatta 300
tatttgaggg tgggtgtgat gcaggagagc atgcctccat tgagcttgca ttgttgaaca 360
tgggtcttct acacagagct gtaaagagaa actgtaggcc tatggtagaa ctactgttaa 420
gatttgttcc agttaaacc tcagatggtg cagacagtga aatgaagcac gttgccgaag 480
cccctgacag attcttattt agacctgata ctgtcgggcc agctgggttg actactcttc 540
atgttgc 547

<210> 4401
<211> 499
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063g02d1

<400> 4401

ctaaaataat atattaagaa aaggtggaag cttacagcag aaaacacctg atatacaaca 60
ttacattgcc ccatactcta atgattccca gttgaagggc tggaagacat aataaactct 120
aggtgagctt ttgaagagca aagctacaca gacacacaca actgctatgg tcaccatgga 180
gagcatgact ggccataaaa ccattgctgt tttcatgcca ccataagcca ccttctgctg 240
gcatgcccta cattgacggg gcattgctgt ggtttcaatc ttctcagtct ttaagcttgg 300

aactctacat gtcctatttc catctgattg cttctgcgtt gtgttactat ctacaacagt 360
 tccagggata tcaaccaa at gttgtctttc accttttttg atgggtcttgt tctggactag 420
 ttgaatgtaa gagtaatagc ccctaaggca agcatggteg ttaggggtca aacctgtact 480
 gtccccgggca cttttccat 499

<210> 4402
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063g03a1

<400> 4402

aaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaagaaaa aaagaaacga 60
 aaggggaata aaaaaacccg aaaaaaaatt caattccgag tctgggcggc ccgctacttg 120
 ggggtctttt accccgggat ttaattctgg cccggtcctt gctgggggcc tcctttcccc 180
 tatggggcgt tgctttatgg ttggcggggc ccctggcatt cgttgtctcc tgggggaaat 240
 tttttccgc tgccatttcc ccccaacttc ctatccgtga gtctcattgt tcaaccggg 300
 ggcgcttcat gcgggggctc cccttcttac ttgctttgcc ctactgccc cctttccagg 360
 ggggtaccct tttgtgcccc tcggttttat tgattggtcc cctccgctgg gggaggcctt 420
 ttgttttttg gccccccggg aggttttctt tt 452

<210> 4403
 <211> 451
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063g03d1

<400> 4403

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 cattctccca gctaattact ttgtgcaaca caaaataata gcgagtttac agaaaaactt 120
 tgtctttttg catttatttg ttggcaggag tcgggaggag acgaactgga gctctaaaag 180
 cataagccta aatgcatatt taagtaccga aacaatactc ccattgtggg aactcggtac 240
 cttctggagc actgccttac accttggttg atcccacttc tttccaatca gttgatagca 300

ctgttccatt tgactccaag aaagacttgc tcattgctct cctcatgtcc tcattctgcat 360
tctggtacat atcacggaac gatttaactc gaggagcatc accatggagc tgttcatttt 420
gtccgctttt ttcacttgag ctaccaactt a 451

<210> 4404
<211> 580
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063g04a1

<400> 4404

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ttgaatggct tctctcctgt ctccaccctt aggattttct ggaaatcacg aaggagatca 120
gctagcggga ggaatttaga ggtatcagaa gatactgcta ataaaccacc cagcaagcag 180
gaagatactc ctccaccttc tagtgaggag gtgcagaaca cgactccgat ttctgagcgc 240
cgaaaggctc tgtttgaacc tttagaacct ataataaata ttaatggccg acgacctctg 300
gccgagtctt tacttcctcc tcttgacttt gagtctgcaa actatccgaa gggctggctg 360
attggcaaga agagaaaact cgttaatgtc gatgtttgtt aaagcatgag aaggattgcc 420
atccaagaaa tgaacagaaa ggacagggaa attgatgggc tgaatgaaca gctggaggag 480
gattcacggt gtctagagca cttgcaactc cagcttgtgg atgaaaaaag caaacgcgct 540
cgagtgcata gagaaaatgc aatgctgcaa gaacaagtga 580

<210> 4405
<211> 524
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063g04d1

<400> 4405

gatataaacg aatagtttgc tcattgcggt ttgatctatt tccccacaaa tattaatata 60
tgactcttat ttttataact gcagagacat ccgacatgag cagccaacta gacatgacga 120
acaaaaccta caaaaagaat ttaatacaca caagcaaaca cacacacaca cacacacggt 180
ataataataa actttaaggt tcattctggc cttcatctcc catttgttct gcttcttgca 240

acatgttcat aagcatgttc acttgttctt gcagcattgc attttctctt tccactcgag 300
 cgcgtttgct tttttcatcc acaagctgga gttgcaagtg ctctagacac cgtgaatcct 360
 cctccagctg ttcattcagc ccatcaattt ccctgtcctt tctggacatt tcttggatgg 420
 caatccttct catgctttca acaacatcga cattaacgag ttttctcttc ttgccaatca 480
 gccagccctt cggatagttg gcagactcaa agtcaggagg agga 524

<210> 4406
 <211> 494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220063g05a1

<400> 4406
 atcatcacac acacatacta agaagcaaca attcttctac aatggatctc ctctttctgg 60
 aaaagaccct cataggtctc ttctctgctg cggtggtcgc catcgccgtc tccaccctcc 120
 gcggccggaa attcaagctc ccaccgggcc cactccccgt cccaatcttc ggcaactggc 180
 tccaagtcgg cgacgacctc aaccaccgca acctcaccga tttggccaaa aaattcggtg 240
 acatcttctt cctccgcatg gggcagcgca acctcgctgt ggtttcttcc cctgagctcg 300
 ccaaagaggc tctccacacg cagggcgtgg agttcggctc ccgcaccgc aacgtcgtct 360
 tcgacatctt caccggaaag ggccaagaca tggctttcac cgtctacggc gagcactggc 420
 gcataatgcy ccgcatcatg accgtncctt cttcaccac aggggtgtgca acaataccgc 480
 catggatggg aatc 494

<210> 4407
 <211> 218
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063g05d1

<400> 4407
 catatgtgtt tttttttttg tttttttttt tttttagga acaaaagggg ggggtcattt 60
 aaaaaccctt cccaaaaccg ggcttaattt tgaggccaaa ggttgaacaa cccatttgc 120

gggcccttat tcattcccaa tttgggagac accccatttt taaggatgtg ggccatgcgc 180
 ttgaacaaaa gggggaaatc aacgtgggga aacctaag 218

<210> 4408
 <211> 523
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220063g06a1

<400> 4408

gaaaaatgag ggtgctgttg ctttcttgat ttgtttgtgt gcagttggta atttttggat 60
 tggtttatct tgtggatcac cttagctttt tgcttccaca gatgaggatt ggactcagga 120
 tacttgaaga ctaaccctgt tcttcttagg acagtgtatg ggttgggaata aatgaagccg 180
 cagctcaaaa ttgctcttgc tttagttgtt agcttgcttt ggattcagca atcattttgt 240
 gatgaaactt ctgatacatc tagcttaaac aagtggaggt gtagatgttc tttccaaggy 300
 aaccaaagct attctcttgc taattgttca aaatcatgtg attgcttctc agattctgaa 360
 gagagtgcac ctgtatggac atgcgtatgt gattccaatg gatttcccca agtggcagca 420
 gatggtcata gctcccaatg ctttaatgct tgcaactgca cttggngaac cttcagcagg 480
 ccgggagggtt caaagagcat gttccagcaa gatgggtgag tta 523

<210> 4409
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063g06d1

<400> 4409

gtgacaaaa cctttaattt aatgtgtatg tcatccggtt cctctccaaa taaagaagaa 60
 ccagaatttc ctatcatcct atgattttct gtacaagaaa caaacgaata cttttcagtg 120
 ctcatcaaac aacacctgtg agcttttctt ttcaaacat gaaaaaaaca tgtagaccaa 180
 gataattaa acagaataat tgcagcatct cttatgatat ctcatagagc catgcacagt 240
 gacgggtggt agaacaagca acagaggtgt accaccagtt cacacaacat aaactcctca 300
 ggcttctgcc atctgcatct ctctgcccggt gccgggtgta tatttttcat ggggcattgc 360

catttgtgat gcaaaatgat tcaaacctag gctcagtcag gtctactatt tcctcttctg 420
 atgcacgaga accgtcagat ttcgaagtca agaggatcaa actctccata ttctcagctg 480
 aaactgcac tcctgtcttg gttttgttct caacagaaaa gatgtgatca ttatatattg 540
 ggcaatgaac ta 552

<210> 4410
 <211> 447
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220063g07a1

<400> 4410

cttcacttgc ttgaagcaat ggctaagcc ttggcatcag tgctgctgtt tctcctcgta 60
 gctgtgagta atgtgtttgc tgtagagctt gaacttgaaa ctcttccacc ctcttaccct 120
 caccctcacc ctgttcactc cccacaccca gcacctcttc acccaccagc aaatgctcct 180
 caccacacc accaccacca ccaccaccac cctccagcac cagcaccagc accagcacct 240
 gttccttcac ctctcacca caattaccct cctaccctg cccctgctaa gctcctact 300
 caccaccatc accatcacc cctgtgctct gttaatccac ctctgttcc gggtcatcct 360
 ccagttaaac ctctgttcc gggtcaccct ccagttaaac ctctgttcc gggtcaccct 420
 ccagttaaac ctctgttcc gggtcac 447

<210> 4411
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220063g07d1

<400> 4411

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 gccagagcc taaaaacgca aaaccacaaa taaaaatgaa gacaaacaaa acaaggccag 120
 aaagaaggca aattagagac aacacagctc tatcatataa cttaaaataa cttgaaatat 180
 gatatatcca taatttcttg catttaatgg caattgggct caaatgcaag aggcccaaca 240

gtgtagagca caaaaggaag cctcttagac aagaaaggct tctcgggcct gagaagagca 300
ccagtgcac caccatggag atttgaggcc ttaagcccat aaggtgcact aaccaaacnc 360
acgttacact tgtggg 376

<210> 4412
<211> 468
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220063g08a1
<400> 4412

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tcatcaatac cttttcctct ttcttcttgt tattgttgtg ttaaagctaa caagaagacc 120
caaaatcaaa ccagtttca atctgcctcc ctcccaaga aagctaccaa tcattggcaa 180
tcttcatcaa ctaagcaa atgccatacca ttctcttaga accctctcac aaaagcatgg 240
ttctctgatg ttgttgcagt tggggcagac tcgagccttg gtggtttcat ctccagacgc 300
ggtcagggaa atcatgaaaa ctacgacat aacttttca aaccgaccca aaaccacagc 360
agcaaaaacc ttgctgtatg gatgtaatga cattggtttt gcacccatg gagaaagctg 420
gaaacacaaa agaaaaatat gtgtccttga agctctgagc cccaaagg 468

<210> 4413
<211> 362
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220063g08d1
<400> 4413

agtctataat ttcttttata ttttagccac actgatattt attgtttgga tccggccctc 60
cttataacat agatcacttt aaagtaaatt aaaccatgga tttaaaggaa aaaggggatt 120
ggcttaagat gaagtgcctc tttctttag gtaactaggc catatgtttc actcatgtct 180
atgtcttgtc cagatgtgtg agttgcaggc agcttccaat tgaaccaata aagaagggtg 240
gccagaatat actcaacaga agcaagccca aacgtcattc cggggcatgc ctttctccaa 300
aaccaaatgt aataaattgc aagtcttggc cattaaaatg aaccgggctg ttatcatgtc 360

<210> 4414
<211> 195
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063g09a1

<400> 4414

agcagaagtt gctgtgccag ctccctaaaca gttgggattt cttctggagc agttgctgta 60
ggacctaat catctccctt aaatatgttt gcacaggaga cgatttctag cactggggct 120
ggacttggat cgctagactt ccttagaaat aacccccagt ttcaagctca agctgccaac 180
cacaggacat cttagc 195

<210> 4415
<211> 274
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063g09d1

<400> 4415

aaaaacaaaa cctccccct ttttttttcc aacaaggccc attaaagttt aaaaaaatta 60
ggggaaaagg ggccaacaa aactttgaat caaggggagg aatggaagtt aaaaaccctt 120
tttttgcccc ctaaaaatga aaaaaaacct aggccggggc agcaaagttc cccccaatgg 180
gatttgcaag caaatagggg gggggggggg gtcttttact caaagagaga gggcccctaa 240
ctccaagctt tggcaggaaa acaaaagttt tttc 274

<210> 4416
<211> 410
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063g10a1

<400> 4416

cttttctcta atcttctaata ctcttatttt ttttccccct ctgttactcc ccgcttctct 60
gaatcccttt ctgttaataca tctgtctttc aactcgtgat tttttgggtt tgcctcacca 120

aaaagattca aactttgaaa atttttctcg aaagccaggt gttttcagaa tcgagatcca 180
 gctttttttt tgtttggttt taaaaaatta ttattttctt tcattcaacc gcgaggggttg 240
 tttttgatcc ctcaaaagct ctccctcttt ttttctttct tggatttaag gggttgtcta 300
 ttttaaacct ctcccatcct tttttgttgt aatatttaaa aaccacaggt tgatgggtttt 360
 aatctaagat ctgctgtgtg agctggaaaa ttgaattttt atatggcagc 410

<210> 4417
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063g10d1

<400> 4417

ggccaagcaa gaaaaaaaa accagctgac caagggagag agatttacat catattgacc 60
 atcgaatagc caataagcaa atttaaaaaa aaaaaaagaa aaagaaaaaa gactaacata 120
 atccaaatcc tacaagtagc actgcaatct tcaaaaactc aattgcagca gccacaagag 180
 caatcctaata tataactaaa ttattaatta cccacaagac tagacataaa aataaaaaaa 240
 caaagagtct tcagagagaa tcccaatcga tctcataaga aggaaacttt tgcaaattaa 300
 aatgtgtctga agcatcctcc cattgctggct cggttacatc aaaggtaaga tcagacaaag 360
 cagaagaatc cgcagaacct tcactttcag gagacagagc agcagcaccg gaacccgaag 420
 cttcaggttc gggct 435

<210> 4418
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220063g11a1

<400> 4418

ttcatattca tttcaatggc aacttaaggt tttgtcatta cctgcaaagc tgcggtggcc 60
 tgggaaccca acaagccctt aaccgtccaa gacgttcagg ttgctccgcc tcaggccggc 120
 gaggtccgtg tccaaatcct cttcaccgct ctctgccaca ccgatgctta cacttggggc 180
 ggcaaggatc ccgaaggtct cttccctgtg attctcggcc acgaagctgc agggattgtg 240

gagagtgttg gagaaggtgt tactaatgtt cagcctgggg atcatgtcat tccttggtac 300
caggctgagt gtgggggagt caagacttgc aaatcgggga agacaaacct ctgtggcaag 360
gttcgctccg ccaactggagt tggggtcatt ctcaatgatg gaaagagccc gttctccatt 420
aatgggaagc ccatttatca tttcatggga acatccactt ttagtcaata cactgggtgnt 480
catgacgtta 490

<210> 4419
<211> 378
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063g11d1

<400> 4419

aacccaaaag ggatgctttt aagtattcat tctttctgat cacaagtttg ccaaaaagatt 60
cgaaagataa catccatatt atagaccaa atgatcttac ttacaaacta taaccactcg 120
agatttattt caagttcaaa ctacaaccac taaaagaggg gaaaagcaac ccaacacatc 180
cattcctcac gaaagtagcc aggctagcat agataacctc attcttgtgt tgaaagcaca 240
caacgaagac atcccccttc atgcaaaaga tcaaaagcct tgtgtgatct ccgaaaggg 300
caaagtatgg gtaatatact catcaacctt gatttccttc ttcaagtact tgtctacaag 360
ccaaggcacc tgtgacct 378

<210> 4420
<211> 483
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063g12a1

<400> 4420

cgaactgatc tggatgacaa agacttagag tctagtcgcg acagggagta tagagatata 60
gagagaagcc gggataagga ttacaaagac agaggaaggg tgaggaatc aagggaacgg 120
gatagacaag acaggtttca acttaatgca attaggtccc tcaactcttc gtactgccat 180
caatccaagt tggatgatgt gtttcaatat aagattgtga ttaatttata gaaggcacia 240
aatcttgtgt taatagcaat tgggtgagat tcattccctt taattacat ttccgtcaat 300

ccacgggttt gattctttgc ctatgtcagg tggaattggg ctttatacat gtaaagacaa 360
 tttgctgcca tgttgcgat ttaaggaaca tgaacattgt gggttgggaa aatatggctg 420
 atgcaaaatg gtattgatat tttcaaactt gaactgctat aaagagggtg catgtataac 480
 aac 483

<210> 4421
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063g12d1

<400> 4421

acatcaaaac tttgtgattg ctatccgcca aagttgaatt acatcgatgt ttctagcatc 60
 acaacccttg ttccaatcaa taaaactgcc aagccacaac agtaatagga cgcttatatc 120
 aaacccaaat ccccgaaaaa attattcaag tagtaactgc agcttttaca cataagcacc 180
 tttaacttat ccaagacaaa tgtgcatagc taaatctttt tcaaaggaag ccggttatata 240
 attctaagga tgattatttc tgccacgaga ctctcatca cacaacaacc gtgaatttat 300
 ctgctgtctg ggaatttatc ctcgatgac tgaggcacca tgaagcttgc agtgatcatc 360
 ttcccagcaa accatcttcc gtgcaaggac tgctgtgcac ttattgcaga ttgggtatct 420
 tcaaatcgta aatagacaaa accagcactc ttcttatcaa catatatgtg tttt 474

<210> 4422
 <211> 220
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220063h01a1

<400> 4422

tgcatatfff tactaatcat aatttgtgta taaaaacaga ctgatgaaat gatcagaaaa 60
 ataaatttta tgtgaatatg tgattccagt tactcaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 agggcgggcc ccaactaaga gagctttcaa cccgggaata 220

<210> 4423
<211> 350
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063h01d1

<400> 4423

cgggaaaccg gaaaccccat tccccaaaaa atttaatttt ccgaacattt aaacagcctg 60
gttttttacc caaattttga ttagaaaaaa aatccccccg cccccaattc ccaacttacc 120
cccccccacc ttccaacgta taaccacctt acagggggccc ccaaagtcaa aaccgggggc 180
cgctttttaa aaccccccta ccgggaaaac cctgggggtt cccaatttta agcccttgaa 240
aaaaaacccc cttttgcccc ctgggggaat tccaaaaagg gcccccccca ctggcctttc 300
caaaaaaggc ccatcccaa agggaaatgg cccccccct gtacgggggc 350

<210> 4424
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063h02a1

<400> 4424

aagtatttaa aactagctgc tacttttgct ttgagttacc gagatagaga aaatatgctt 60
aagaggcttg ttcacactaa aacaaactaa agcataacat atgaagtaga gggaagtgct 120
atttttcaaa agaggaggga ggtcagtgt aattaagcat ttttttgag aaggtgaatg 180
taatttgccc tatttattgt tctgttcttt taatgaggag ttatataatg tgtgattaaa 240
tgttttctta tttatacagg ctttgacgt ttaaacaatt ccgatcaaga tccaattttg 300
ccttcccatt ttctcgtcgt ttttttgtaa cgttcttcc atggcatatc cttctctga 360
tttcaagtac tcagatggcc tcagtgtagt gggtatctcc ttctgcacag ctattgtctg 420
tgaggctatc tcatgggttc ttatctatcc gaccaattct tacataaacc 470

<210> 4425
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063h02d1

<400> 4425

agacgatgag tctttattgc acttaaataca aaacttaaca agaaaatcac catcgtaaaa 60
ctggagttga ctgttttcag tatcagttgt accaattaaa atcattctgg actccctaag 120
agaaccaaata caaaaatata aatgactgaa gttttgcagt tccatatcat cttcaaccta 180
gaaacaactg agataaaaag tttaaataatt gtaaaaaccc aatcaactgg tctttggatc 240
aggcattgga aagaggccag cacttgcacc tcttggtggt gcaaaaccca agaacttctg 300
caaatttgtt ctgatgctaa tggaacacaa gaagtacaga aatgccatgg aacaatcagt 360
ggggtcatta ccttgcaacc ctgatggct catcttcata ataagcccaa aaggtttgaa 420
gggcaatttg gcaacaacct tgccttcgaa gagtgaattc agcaacccaa agaccacaaa 480
g 481

<210> 4426

<211> 399

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h03a1

<400> 4426

ggtttatcaa atttcttgag ccattttaca tgctgcttat aacaaaacga agaaagatcg 60
gcacaatctg tgggcacact atatatgcta tcacaaagag cgaaatgggc ccaattcctc 120
atgctactgt gcgatccaaa atggcttatt ctaaggatga gaacaggtct ttagtcaatc 180
ttgcatgtaa tcgtaatgcg tctatggtag atttaaagag acatgtagac agtagcattg 240
agagctatac cttgtccatt gtacttagat gttatgaatt acaatttttt aatttgagtt 300
cattatattg tgcagcgaaa acattctgtt agagcatagt tgagttggaa ttatacattt 360
tagacttctt cttgtactat atttggtgat tgtctctct 399

<210> 4427

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h03d1

<400> 4427

ggttatcttg gaataatttc tggatttggg ggaacacagc gacttcctcg accagctggc 60
cgacaaaggg acccgatagc aggcggggccc caaaaccagc taaagggaag gaagccccc 120
agccggagcc cggggaaggg gggcgccac caaaagaaac aaagaacacc gcacccaat 180
gggcgcccga taaaccgggg caccgaccac ccccgggggc caagccgggg gagagcaaaa 240
aaaccgaacc cccggaagaa ggaaa 265

<210> 4428
<211> 209
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063h04a1

<400> 4428

gtttatctct tttcttcttt ttaatatatta atttctttgt attttgtatg taaagatgta 60
aaattatgat tattaggtgg cgcattgtgc gcgtcatggg ccaatgttat cctctgcttt 120
taagttggaa gagggccaac tcattgtgtga tgtacggctg tgattgtgta atttaatttg 180
caaaatcaaa aataacacca gagtcatat 209

<210> 4429
<211> 209
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063h04d1

<400> 4429

atatgactct ggtgttattt ttgattttgc aaattaaatt acacaatcac agccgtacat 60
cacacatgag ttgggcctct tccaacttaa aagcagagga taacattggc ccatgacgcg 120
acacatgcac cacctaataa tcataatttt acatctttac atacaaaata caaagacttt 180
aaattttaaa aagaagaaaa gagataaac 209

<210> 4430
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220063h05a1

<400> 4430

caaggcagaa agcaagetca tcctagagtt ttaaaaatgg cagcagcctc ctccatggct 60
ctctcttccc catccttggc tggcaaggcc gtgaagctgg gcccatcagc ccccgaagtc 120
gggaggggtca gcatgaggaa gaccgtcacc aagcaggcct cctccggaag cccatgggtac 180
ggcccagacc gcgtcaagta cttgggceca ttctctggcg agccccgtc ctacctcact 240
ggcgagttcc caggtgacta cagctgggac actgctgggc tttcggccga cccagaaacc 300
ttcgccagaa accgtgagct cgaagtgatc cactccaggt gggccatgct cggggccttg 360
ggctgcgtct tccccgaact gttgtccgc acggggtcaa gtttgagaa gctgtgtgga 420
tcaggccccg gtccagatct tcagcgaggg tgggctggac tantctgggc acc 473

<210> 4431

<211> 438

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063h05d1

<400> 4431

ggaaaaagca agtaacatta agttggattg ggatacacia gataattcac attatctgaa 60
gtacattgca ataacatata cttcacaaa caciaatcta aaaactctca aaagtccaca 120
agtcattcctt ttctttcatg ctcaattgcc ggggacgaag ttggtggcgt agggccaggc 180
attgttggtg actgggtccg caaggtgatc agcaagggtc tccaatggac ccttaccggt 240
gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag 300
ttccttcacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa 360
gctgccccag ggtagattgg gtcagtgacc tcaccgaggg gccaccagc aatacgataa 420
ccctcaaagc acccata 438

<210> 4432

<211> 476

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063h06a1

<400> 4432

gcatctcaga ggccaattct ttcttgcgtt tttctctctt tccaacgctt cccctgtg 60
tgttctcgtg ttgctggtaa caatatggtt gttgacgctt tgaatgagga tttgagaatc 120
aacggagcag ttgaaccgtt gcttgaggac tttgatgcaa cagctgtaat catagatccc 180
gtgccttttg cagttgtaga caatggcatt gtcaaggagg aggcgcacat cattaagga 240
aaagagaaaa gagaaatagt gctgggaaga aatattcata cctcgtgtct agaagtcaca 300
gagcccgagg cagatgatga ggtcactggg gaccgggaag ctcatatggc tagtgtgttg 360
gccagataca aaagagcttc gactgaaaag acaaagcatc atttagggta cccctataat 420
ttggatttcg attatggtgc gctcatcgca ctttcagact ttttcatata caacct 476

<210> 4433

<211> 507

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h06d1

<400> 4433

gacagcaaag attattctaa atgttattaa ttgcatcaaa gtcctgatag aacatagggg 60
cgtacactgg ataaacactc caaaaaccaa ctacagcaat aaacactaga tgggatgctg 120
caattacttg tgcaaagcac aaaggcaatt cttttcacct acgtctgatg atatacagta 180
gggttgatcc ttgccatctt gaaaccaggt agcacgcttc tccagaagct cgttcagaaa 240
atcatcaagc ttctcaatag agatgttttg catcaccacc acatgtgcga tattcccctt 300
gcatgctaac tgccacttgc gtataaattc ctcatcatgt ggcctctcaa acacaaccgt 360
gctgctcagt tcattaagca ttgcaccaat ccagcctca acaaggcggc ctttgaagta 420
gtgtgcattt cgcaagcatt tctgtacttc tttctgaaaa cctctatatc ctttccgatt 480
caggatatac agaggaatat gggagca 507

<210> 4434

<211> 189

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h07a1

<400> 4434

caaacactag caaaggggaag gaattgtacc ttccccaata acccctatct ccggtggggc 60
ttgtctcatc ggaggggaaac aatcaataaa agaaaaaaaa aaccacaaaa aagattataa 120
caaaaaaagt atgaaaggaa aagtactagg ttccgcaggt tctctcatcc tactggtggg 180
tgtggtaat 189

<210> 4435

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h07d1

<400> 4435

ggcaaattaa gtagtttcca ttaaatagcc aaaagcaaaa ttcccattgc ttctcccatc 60
atcagtctat gttatatgca tactgaagac agagatgaag tggttgatac aaaaaggcat 120
aaatcataaa tatgaaaagc ttattgaatg attacaaatc agctcctcag acaatggagt 180
ggctatgtgt gactgcattg aaattaggtg atcgatttcc tgtttatagg tttattaatg 240
taggtaggct aaaaaagaga ttata 265

<210> 4436

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h08a1

<400> 4436

gtcgattaga ttactttcac accttagtcg ttgagtact tcaccttctt tctctctaag 60
cgcaaacct cgtactgttt ttggcgggta aggatgtcgg ggaaaggagc gaaggggttg 120
atcacaggca aaacctccgc cgtcaacaaa gacaaggaca agaagaaacc catctcgcgt 180
tcttctcgtg ccggccttca gttcccagtt ggtcgtatcc accggctttt gaagtcaagg 240
acaaccgcta atggtagagt tggggccaca gctgctgtct actctgctgc tatcttggag 300
tatctcactg ctgaagtatt ggagctggca gggaatgcta gcaaggatct caaagtcaaa 360
cgtattactc cccggcattt acaactagca atccgcgggg atgaaaagtt ggataccctg 420

ataaaaggaa caattgctgg aggaggagtg atttctcaca ttcacaagtc

470

<210> 4437
<211> 344
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063h08d1

<400> 4437

aacaaagaga aataactaaat attatatcca tgatcaacaa caggcaacaa agtcataaat 60
aaaaggccct actttgtttt tcaagtgcc a tgcaaaaatt acacaattag tagagagaaa 120
ttttccatca agcaagctat tattcactag taatctactc cttggaagac ttgttgataa 180
gagacttggtg aatgtgagga atcactcctc ctccagcaat tgttcctttt atcagggtat 240
ccaactcttc atccccgcgg attgctagtt gtaaagccg gggagtaata cgtttgacct 300
tgagatcctt gctagcattc cctgccagct ccaatacttc agca 344

<210> 4438
<211> 380
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063h09a1

<400> 4438

attctcatcc ctgccattcc agctttcatc attgccgagt gctatggctt tggaagacct 60
tggaattttta tattgagctt acttggactt acaccacttg ctgaacgtgt gagcttcac 120
acaaaacaag ttgcctttta cactgggtccc acaggcggag gacttctgaa tgctacatgt 180
gggaatgtta ctgagctcat aatagcaata tttgccctta gcagtaacaa aattgctgtg 240
gtcaagtatt ctctgttggg ttctattctt tcaaaccttc ttctgggttct tgggacctct 300
ctattatgtg gtggcattgc aaaccttaaa gtggaacaaa tatatgacag aagacaagca 360
gatgtgaact cacttatgct 380

<210> 4439
<211> 439
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063h09d1

<400> 4439

aagaagaaac tagcattaat agaattttta tttctcacac aataaatata agagattctg 60
caaactgaaa aagggatttc ttactaaagc aaactcaaac aagaacaact tccactcatt 120
tggcatctac cgtagtagaa caggatcaaa agcagctctc tgatagaaca cacgtatgta 180
ttatattgaa catcttgac agtgggtcat tttcacagc tattgcaact taaaatactt 240
gcaaagcttc tgcaaattcc aaactttctt tttctccctt ctttatggat atgacaaagt 300
gatcagatca tgaaacaata atcaatccat tgaattgaat ctgatttttg gtttgatcg 360
atgccacat tcttcatctt aggaaggac aacaaatagg ccaaagccta ctaattaagc 420
gcttaaaact gattagtgg 439

<210> 4440

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220063h10a1

<400> 4440

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gatcggcgat ttcttagaca tggcggagca tcacgaacac gaggaagtga agggtgagtc 120
cttggttgag aagatttctg ggaagatcca cgaccacgat tcgtcatctt cgtcggattc 180
cgacaacgag aaaaccagcg cttctgactc cttgaagtca aagggttctca ggcttttcgg 240
cagagaaaag cccattcacc atgttcttgg tggcggaaaa ccggccgacg tttttctctg 300
gagaaacaag aagatatctg catcgacact cggagttgag accgctatat gggctctgtt 360
tgaattgctt gaggaccacc tntcacctt gggttgccac ttctgatcc ttggtcttgc 420
ggtgtttgtt cttggtggtc caatgca 447

<210> 4441

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h10d1

<400> 4441

caaaggtcct ttgggtatct tgctcaacac ctctgcatca aacactgcat attgcttctt 60

aatctcggca attgccttcc caccaaaaga gtctacatga tcttcatatt tctcataaag 120

cacaggcaca gtgtgcagca aaacaaaagc tatgtagaac aggggtcaaga agttggccca 180

gctacccaaa atagagaaaa ccataatcc agcaatcact gataagaact tcttgagatc 240

ccttcagat gcaatatccc ttaacaacgc aaaagcccggttgatctcaa ctctaagagc 300

agaggcaaatt tctaaaacag gtttctctgg aatgtgcact tgcgggatct ttggtggact 360

cttgttgatg aaagtggatg cattggacca caagaacaac accgcaagac caaggatcag 420

ggaagtggca aaccaagggtg aggagggtgg gactcaagca attcaaacag aacctatata 480

gcgggtgcac tccgagtgtc gatgc 505

<210> 4442

<211> 527

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220063h11a1

<400> 4442

aagtgttct ctctctgtc ttttctctc tcttgctatc cttttggcta gtggcactgc 60

tgcaagtga actccaagaa ggcagtgcc aagccaccat gtttcaacat tcaacagaag 120

ccttttctct tccacttttc tctttggaat tggttcttct gcttaccagg cagaaggagc 180

agcaagtga gatgggagag gaccaagcat atgggacacc tacactagac agcactactga 240

aaagatttgg gatcatagca ccggtgacat gggagctgat ttttatcatc gatacaaggg 300

tgacataaaa atagcgaaag aaattgggct ggactctttc agattctcta tctcatggtc 360

aagaatattc ccaaagggca agggagcagc taacccccctt ggggttaaatt tctacaacaa 420

tgatcatgat gagatcctag caaatggatt aaaacctttt gtcactcttt ntcattggga 480

ctctccacaa gctcttgaag atgagtatgg aggattccgt agtccta 527

<210> 4443

<211> 398

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063h11d1

<400> 4443

acttcgacat gccatttggc attatttatt tgataaaatg atctcttgat tacatccaac 60
acaagtgata tacgatgaaa tctagggaaa taaacaagaa aaacactaga catgtcaaag 120
gaacactaaa ttcagatcac ttgagaagga actttttgcaa ccaaaaagca gagaacttgg 180
ggtatctttt caagttgttc ttgtaatcca catatatgag cccgaatcga actgtgtaac 240
cagcatccca ttcaaaactg tccgaaaatg accatgcata atagcccttc aaattaacac 300
cttccttgat cgcttgaaga aggaatttaa gatggccatc atgggatcta atccttatac 360
tatccctgcg ggcttcattg actgggattg agtcattc 398

<210> 4444

<211> 512

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220063h12a1

<400> 4444

ctgccttgct catttacaca cctttccaac ctttcacttt cagctttatt tgaatccctc 60
tctctccttt ccaaattggcc agcgttgagg ttgcacatca aacaccaaca acagttccag 120
aaaatgaaac aaccgaggta atcaagaccc aggaaacaac cccggaacca gtaccagcca 180
ctgaggctcc tgcaacagaa caagcagcag ctgagggtcc tgctcaagaa gaacaacaag 240
caactgaggt tcttgcccca gaatcaacca ccgaagcacc aatgaagaa accaccgaag 300
caccaacaac agaaacagta gaaacaacaa ctacagaaga agccaagcca gaggagccta 360
aagaagttgc agttgagacc gaggaggtgg tgacacagga gacagaggat gagaagccag 420
cagcagaaga gaaatcagag gagaaaactg aagaagtga agaagaagca gaagagccta 480
aagaaactac tgaaacagaa acagaatcag ca 512

<210> 4445

<211> 367

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220063h12d1

<400> 4445

aaaggaaata tcattttattc aaacctaag aaacacaata acacatcatc acaaactcat 60
gtaaccctgc caataaaata aacccttattc cctaaactcc agcaccagca gcagattgct 120
cacttcaata cacaactcct agaattttctc atgtcaccac gtggtaagca cgctgatgtg 180
gagccaagtg ttgtgtcac acgtaggtat accctccata atacaaccaa agacttaacc 240
atcatataat aataatatat taataataaa ggccactgaa gaaatgaata aaaaaaaaaag 300
cttttcaaca tgacatgcaa aatggtagac ctaatgatcc ccacaactag gaccatttta 360
aaacttg 367

<210> 4446

<211> 479

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220064a01a1

<400> 4446

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ttggccaatg ttgccatcaa gaatggcaaa aactacaatg tcattgtgga aatcgccact 120
atcctctccc cggaagagct tttggccgtg agacgtgctt atctcaaccg ctacaagcac 180
tccttggaag aagatgttgc agctcatacc tctggccatc tacgccagct tttagtgggg 240
ttggtgacct catataggta tgttggtgat gagatcaatc caaaattggc acaaactgag 300
gctgaaattc ttcattgatgc tgtgaaagag aagaagggtg gctatgaaga gaccattagg 360
gtcttgacca caaggagcaa gaccgaactt gttgcaactt ttaaccgcta cagagagatc 420
catggcactt ncatctctta gaacttgctg atgaacgatc tgatgagttt caaaggga 479

<210> 4447

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220064a01d1

<400> 4447

aaaagccaca aagcagctat catattaata ctctataaga taaaactcca agttctcatg 60
 atcaaggaaa attgaaaaca gactcaagga aaaccaacac acatgaaacc atcacacaca 120
 agtatagctt actgtcctaa actcataatc acaaatgccc tcgaagaaaa gtttttagtc 180
 ttcttttccc aacagtgtga gaaggaactt cttgtagtcc ccagaggttt ccttggcaat 240
 agcatgctca agaagaacac tgtttctctt gtagtaaacc tctgagatta tcttcaagtc 300
 cttctcagcc cggctcacga ccacacgggt gagtgcattc tcattcagttc caaccttttt 360
 gattgcattc cgcaccacct ttctgtagta cttaatagga tccttgatgc cacgaatggc 420
 agtgtacaat gccctttgaa actcatcaga tccttca 457

<210> 4448
 <211> 316
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220064a02a1
 <400> 4448

ggagactttg agaaagccat gtatttatgg tttctagaac ctgcagatcg tgatgctggt 60
 ttggccaatg ttgccatcat gaatggccaa aactacaatg tcattgtgag aatcgccact 120
 atcctctccc cggtagagct cttggccgag agacgtgctt atctcaaccg atacaagcac 180
 tccttgtaag aagatgctgc aaccataacc tctggccata ctacgccatc ttttagtggg 240
 gttggtgacc tcatataggt atgctggtga tgagatcaat ccaaaattgg cacaacgtg 300
 ggctgaaatt cttcat 316

<210> 4449
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220064a03a1
 <400> 4449

gaacaaaacc ttgtctcttg ggctcgtcca ctgttcagtg accgcaggaa gtttccaaag 60
 ttagcagatc cacagctgca gggacggtat cccatgcggg gtctttacca agctctagct 120
 gtggcatcaa tgtgcattca agaacaggct gcagcacgtc cactcattgg ggatgtggtg 180

acagcccttt cttttctggc caaccaggca tatgaccata ggggagctgg tgatgataaa 240
aagaacaggg atgataaagg tggaagaata ttgaaaaatg atgtaggtgg aggatctgga 300
cgcagatggg atctggaagg atctgagaaa gatgactccc cacgtgaaac tgcaaggatg 360
tctaacaaca tggatcttga tagagaacgt gccgtggctg aagccaagat atggggagag 420
aattggagag aaaaaagacg acctagtgcg 450

<210> 4450
<211> 536
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064a04a1

<400> 4450

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gactgggttac gtcaaacacc atcaaattca atatgcccag tacctgttcg atcaaatgcc 120
cttcaaagac acggtttctt ggaatatcat gctctctggg tttcacagaa tcacaaaactc 180
tgatggggtg taccgctgtt tcttgcaa at gggaagagct ggtgtgcccc ccgatgacta 240
taccgtctcc acattgctca gagcgggttat aagcaccgag ttagatgttt tgatccccca 300
gcttcacgct cgagcgtgc atttagcact taacttgagt gtgtttgttg ggtcttcggt 360
gatcagagct tatgccagtt taagagacga ggaggctttt aagcaagcgt ttgatgatat 420
attgaggaaa gatgtcacgt ctcggaatgc ttcggtttct ggctatatgg aagtgggaag 480
tatggatgat gtcatacac ctttgatatg atgatgcctg agaaaacata tttcat 536

<210> 4451
<211> 380
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064a05a1

<400> 4451

ctgggaagat ggaaatccag gcttttgggc agccagtcca cagtatcagc ctggaagccc 60
tccttcacgg ccatatgaag ccccaactcc tgggtctggg tgggctagca ctctggtgg 120
aaattatagt gaagctggaa caccgcggga cagttctgcc tatgccaatg ctccaagccc 180

atatttacca tcaacacctg gtggacagcc tatgacaccg agttcagcat cttatcttcc 240
 tggcaccctt ggaggacagc ctatgactcc aggcacaggt ggtatggaca tgatgtctcc 300
 agtttttaggt ggggaaaacg aagggccctt gggttatccc agatatattg gtcaacgtac 360
 acagggcttg agaggaatct 380

<210> 4452
 <211> 491
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220064a06a1

<400> 4452

tgcgaggctg cgacttctag cgttegaaag agagagagaa tcgaaggcga cacacagctt 60
 gcatccgatt ccgagaagaa gacgaggctt ctctttcgaa tacaatcttt ctgctacatg 120
 atgttgaaca aatgatacag aattttattct gtgcacagaa attctggcac atatgacagg 180
 acttatgcct ggagagttgc cacatcatgg aacacctgat ggcaactctg gtaaaaagttc 240
 tcaagacaag caagaggaat cattaggtcg ctggtatatg tctagaaaag aaatagagga 300
 acattcccca tcaagaaaag atggaattga cttgaagaaa gagacatatc tgcgcaagtc 360
 atactgcaca ttcttgcagg atttaggcatt gagactcaaa gtgcctcatg taactatagc 420
 aacggccata atctttgtca tcggttcttt cttcgacatt ctcatgcata gaatgaccga 480
 aggaccattg c 491

<210> 4453
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220064b01a1

<400> 4453

ctgttctagt ttattggcat ttggatcagt aactgcaatt cccaatgcaa attttcatcg 60
 ggcgccaagg agcactagtg tgcttctggt tggtgtctgt gttttttgtg gtaacaggat 120
 tcaacaatga agagcacagg acagtggagg tagttggcct aggagaatgc gcagactgca 180
 tgcagaacaa tattaagaat aaccacgctt tctcagggtt acgtgtgacg gtagattgca 240

agtcacgaca tggacacttc agaacgagag gggcaggtgc gcttgatgaa tatggaaact 300
tcaaagtatc acttccacag gacatggttg aagatggtga gctaaaagaa gattgctatg 360
cccagttgca tagtgcattc gctgaacctt gccctttcca cggaaacttc aaaattgtga 420
ccaggtcagt ctctgaagac acacacaccc ttgcacctgc tgctggaata ctcagattct 480
catcagcatt gtgcacttca gccctttttt ggcatttctt taaacaccac ccagaatttc 540
cttaaccttc ctaagatgac tac 563

<210> 4454
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064b01d1

<400> 4454

cataaagcat ttttaagtta tacgtacttg taaaaacta acagagaaac cttcacttat 60
taactcatca cattcaactt ggtcaccaaa attaacttca aactttctca aacaacattg 120
ctccatcatt tgtttttctc ttttactctc atttccatgc tcttctgctc acattctgta 180
tccactgaca tggatgttat tcggatttta ttgctaacat aagaagcaaa aacgctagaa 240
aacgcacata taaaaaacgt tactccgaga acaatgatag tctatgaatg agagggaggc 300
cagttttcaa accatgggtg ttggtaaaag aactttggag gttccatctt gggaagaggt 360
ggacacggct tcttgaaatg gaaaggagga aagtatttaa aatatggtgg cgacggcgcg 420
gtaggagtag gtcataaat gggagtagga ggaggaagtg gcttgtaa at g 471

<210> 4455
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064b02a1

<400> 4455

cgaattctca cgtgatgttc cgttttaa ac agaacacacc agaagagaag gccaaaggccg 60
gcacactttc cactcttcca tcacgaggat cgcaccgcaa taaacgacac ccagattgat 120
cgcgattcgc ccatctgatt taaaagtgg aaccgcaatg gaggcagctc agagaagatt 180

gggaggagga atggtgccgt tgtcgccgtc acagactccg cgctccagcg ataagcccgt 240
 gcgagatctg cgatctgcgg attccaattc caacagtcac agcaagtatg ataaggacaa 300
 aggtgtcaat gtgcagggtc tctgtagggtg caggccgttg agtgaagatg aaacgaggct 360
 gcacacgccg gttgtgattt cgtgtaacga agggagaaga gaggttttag ctgttcagaa 420
 tatcgccaac aaacagatcg atagaacctt cgcatttgac atggtgtttg gtcctaactc 480
 tcaacagaaa gaactgtatg atca 504

<210> 4456
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220064b03a1

<400> 4456

gtaccccaga agatcgtaca aggttctcca cgaagacaaa cctctgttct caactgtgtt 60
 tctttacctc tcacctactt tcagaccata ccagattgac taggctgaga agatgcagca 120
 gacaccgcct atgattccta tgatgccttc gttccacact acgaacataa ccaccgagca 180
 gattcaaaaa taccttgatg agaacaagaa gctgattctg gcaatattgg acaatcaaaa 240
 tcttgaaaaa cttgcagaat gtgcccagta ccaagctcag cttcaaaaga atttgatgta 300
 tttagctgca attgctgatg cccagcctta aacaccagcc atgcctccac agatggcacc 360
 acaccctgcc atgcaaccag gattctatat gcaacatcct caggctgcag cagcagcaat 420
 ggctcatcag cagcagcaag gaatgttccc ccagaaaat 459

<210> 4457
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220064b04a1

<400> 4457

gaaccgtgtt ctctaattctt gtatttttct gtgtcgcttc gtggttcatt cttctcgctc 60
 ttgtgatctg ttctattttg gagtacttac aacactcctt tgcaagttta attaattaaa 120
 gaggctaatac aattttcaat tggactgcag cagatggctg aggagggttg cagggttact 180

ctaaatgtct atgacttgag ccaaggacta gcacggcagc tttcaatgtc ctttttgggg 240
aaagctattg aaggcatatg gcacacagga gttgtgggtt atggtaatga gtattacttt 300
ggtggtggca tacaacattc tctgtctgga ttaacaccat atggaactcc acttaaagt 360
gtagacttaa gtgtgacaca tgttcccaag gatgttttcg aaatgtatct acaggaaatc 420
agtccgcat acctgccttg aacatatagt ctgcttactc acaattgcaa caacttcagc 480
aatgaggggtg ctcaattt 498

<210> 4458
<211> 381
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220064b05a1
<400> 4458

gtggacaggt gaagactttc cacttggtc ttaaattggt tcctaagaag aacaagaagc 60
cttttgtgat ttacatcaag gccggtatct acaatgagta tattatcatg aacaagcact 120
tgacctatgt caccatgate ggagatggcc ccaccaagac cagaatcacc ggcagcaaaa 180
actacgtcga tggcgtccaa acttacaaca ccgcaacctt cgggtgtgaac gctgctaact 240
tcatggcgaa gaacattggg ttcgagaaca cagctggagc tgagaagcac caaccctgg 300
ccctgagggt tacagcagac aatgcaatgc tctacaactg caacatggac cggtttccag 360
gacaccctct acacgcaatc c 381

<210> 4459
<211> 292
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220064b06a1
<400> 4459

gttctagatc gcgagctgcc gccttttttt tttttttttt ttatattgga ttcagtgttg 60
ttttttatcg tccgtatccc caccattta taacatcaag caccatcaag aaaatgacgc 120
cttattttaa ccaaaatacc cgaaataggt aaacaagaag taaccgcctc cttgtacaca 180
taaacaccta atactaaacc aagacaaatg tgcatagcta aatcggttaac aaaagaaacc 240

ttccaataag aaccaaggat gaaggttgcc gccaaagagac tccacataaa ca 292

<210> 4460
<211> 434
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064c01a1

<400> 4460

gcccgtccgt gagcttatag ctgatgatgc ctggttgaat gggaattca ttactactgt 60
tcaacaacgt ggcgctgcaa ttatcaaagc tagaaagctt tcaagtgcac tatcagctgc 120
tagtgctgct tgtgaccata ttagagactg gggtcttggga actcctcagg gcacttgggt 180
atcaatggga gtatattctg atggttccta caatgttcca gctggactta tatattcatt 240
ccccgtcact tgtgccaatg gggaatgggc aatagttcaa ggactttcca ttgatgagtt 300
ctcaaggaag aagttggact tgactgcaga agagctttct gaggagaagg cattggctta 360
ctcatgccta aattagacac cattgcttta tgtctactgt ccttggttagt aggttcccat 420
gtttcgcta taga 434

<210> 4461
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064c01d1

<400> 4461

aaaattagga ctaatccaaa attcaatatg cgccccatgg gctcaaatat cctcctccta 60
aaaggattag atgttgaaat acaagtaatt ccaatgaaaa acagactctt ctccagtgat 120
agttcctttg tatcttagaa ggagcattat tcaaaattga agctacactt ctataggcaa 180
aacatgggaa cctactaaca aggacagtag acaaaaagca atgggtgtcta atttaggcatt 240
gagtaagcca atgccttctc ctgagaaagc tcttctgcag tcaagtccaa cttcttcctt 300
gagaactcat caatggaaag tccttgaact attgccatt cccattggc acaagtgcag 360
gggaatgaat atataagtcc agctggaaca ttgttagaac catcagaata tactcccatt 420
gatacccaag tgccttgagg agttccaaga acccagtctc taatatgggc acaagcagca 480

ctagcagctg atagtgcact tgaaagcttt ctagctttga t

521

<210> 4462
<211> 476
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064c02a1

<400> 4462

actgaattcg agaaatttca ctttttgaat atccttggtt ctttttggtc tccacatggt 60
tttagcgggt acgcttggtt tttttctcgt gttcaaggga gttcaagggc taatccagga 120
atcagaatct aacaagagga aagagaaaaa cgtgttcaag tttttcttc cccaagtgga 180
ggctgcatct tttatgagca taattcttgc atttatttgg caaggggcga ttaggaaatg 240
gccaactttt atgcttcatt tcatactttg gtttactttt gtggtgtctc tggctgctgg 300
gattctccta atttgcttcc aaaagccgc cactgatggt gttggagcgt gtttcattgc 360
ttttgcaatt gggaatggct tatatgcttg ctgggtaagt catagaatta agtttcgttg 420
taaggatttg agtttgtctc ttaacctgtc tccaaattcc tgatctgagc aacca 476

<210> 4463
<211> 493
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064c03a1

<400> 4463

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ttgttttctt cttctattaa cagtgtcaaa tgtcttcgtt cctccaagaa ctgctccatt 120
atagaccccc ttataaccac agtgccctca aaccgtggca tgtttgtgtc acacttggtg 180
gaacctttgt ccattggggg tgccattaat tcgcacaagt tgtgggggcc tagaatttct 240
gctgctgttg cacaagaaga ggctgttgtt gtggctgatg atgaggtaga tgacggtgct 300
ggttcagttg aagaagagaa agtggaggag aatgaaggag aagtagttgc agaacaagac 360
tctgattcct ctgccaccaa gctttatttt gggaatttgc cttatagtgt tgatagtgcc 420
aaaactgcag ggctaattca tgattttggt agcgcagaac taattgaggt tctttacgac 480

agggatacct gga

493

<210> 4464
<211> 337
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064c04a1

<400> 4464

agagcctcat gctgggttca acttttcttg ggtgaatctg ccactgtggg cagcgacatc 60
tggtgaactc tttggaccta caaccaaaaa tggcgtgaat aaacctaata ctgctacgct 120
atcatccctc atacaaccac acaccaaata taagccgcca tatgttcaga tgacaccaga 180
tctatccttt gggcaatgcc ggtggagcta ttacgcagca agttgtacct gaccactgat 240
gaccggctga tgaaacacat actgagactg gctcagcgcc cgatccctgg ggggaggatt 300
aatcctagat ccgggtggat caaagtcacc atgtgaa 337

<210> 4465
<211> 388
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064c05a1

<400> 4465

gtttcgtacc actcatccaa acatttcaca gtgttctctc tctctctctc tctctgaaaa 60
acattccccg tataagctct ctccgaatgt cacaatgcct tagcgacgcc tcgctctgct 120
ttcttctctc acgcgtctgt cactgttctc attccctgct ctcatctcgg tccctgacaa 180
tgagatcaaa cttctagtag tgttctacta ctaactatct ttctttcaaa aaagaaaaaa 240
gagagggaca ttattattat tattactata taaatatata tttgctctct ggtggagaga 300
tcagaagcga aaatggcacc accgttggtc aattgggggt tgaaggacac tcacagggga 360
accctgtgg ggggaaaatg agaaccga 388

<210> 4466
<211> 339
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064c06a1

<400> 4466

ctaaacctca tcttctgat catgaacagg caccatattc ataaattaaa ggccctactt 60
tgttttccaa gtgccatgcg catacttcag aactggcagc gagaaattcc cttgatgca 120
aggcatcatc cactgctaag acactccatg gtagactagt agatcataga cttgtgaatg 180
ccaagatatt gtcctacacc agcaattgat ccttttatca gggctctcaa ctcttccttc 240
aggcagattg tttgttgta acgccgggga gtcttacgaa tcgacttcat atccttgctt 300
gcattccgtg ccagctccaa tacctcagca tgtgagacc 339

<210> 4467

<211> 282

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220064d01a1

<400> 4467

actggactgt ggactgagca ttaacacaat aaactgggat ctttttgctc ttcacatgac 60
tatagaggat acgacttgcg tgcattgttg cgttcaaagt agatcaagga ctaatccagg 120
attgagaatc ttacatgaag atagataaaa acgtggtaaa ggctattcat cccaagtgg 180
acgctgtatc tgtgatgatc ataatacttg cattttattc gaccggggcg attattgaaa 240
tggccaactg ttatggtaca tctcatactt tgtattactt ga 282

<210> 4468

<211> 283

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220064d01d1

<400> 4468

tttatatatt atcacaacct ttactcacag gaagactgga accatggctc ttgaccttat 60
agaatgcatc aaaataatga cttcgataga tagccaaaat gtttcatgga ggggggggac 120
cactgcataa gcaattatgg ctgctgggca agcctaacat cctttgcatt catgagcttc 180
caattcaggg tacacctttg cagaacattc tgaaccaacc actgtgttaa caagacacgc 240

cggatgacta ccataacact gttggacata agaccatggc ctg

283

<210> 4469
<211> 402
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064d02a1

<400> 4469

atcactacca aagatctttc ttttttcttc ttgttctaca atgaaaagcc tctgccttgg 60
gccgtttctt gctgctagtg cccagtttg tagaagagcc tatggaggcc acttaagcag 120
aaagtgtttt caaaagcaac ttcacttcca ctcacgttgt gttgctttct cttcattcat 180
atgttctgca actatatcag tgatgccaga attagaagag aagcaagtgt ttgatggaga 240
gaaggctaatt ttgctagtta aagatctcag aaagagcttt gattcaggca tgactaagag 300
ctatggatgg aggggtttccc agctggaagc cataactaag atgttagaag agaaagagaa 360
ggaaattact gaagctctat ataaggacct tggaaaacct cg 402

<210> 4470
<211> 348
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064d03a1

<400> 4470

ttttgagttc aattactcat ggtgttaatg aaatagcatc atcagttcgg gcaagtatta 60
ggaaccagag caaaaagtac aaacatggaa atgaaccatc tgttgaatct ggaacagtg 120
agagcattgg tgaagtgtcc accgaaagca ctggtgattc tcatcaaata cataatggtc 180
atcatgaagt gggtgaaaaa agtagctcga ataaggaggt tcgacatcaa gatagtgaat 240
tagataataa gttggataga aaaccactc ttagacgcaa ttcatcaatc aatcagaaag 300
atgaatccca ctcattagga gtgaagcaga aatatgattt gattgatc 348

<210> 4471
<211> 395
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064d04a1

<400> 4471

atggcatgca atgctttgtt atcttctcca actgctcagc taggcttgcc tgaacttcag 60
cttggataaa.ttcctggatt tggaggaaca cagcgacttc ctcgtcttgt tggtttgaca 120
aagggacttg agatgatact ggcttcaaaa ccagttaaag ggaaggaagc ttttagcttg 180
gggcttggtg atggtttggg gtcacctaata gatttggtga aactgcacg ccaatgggca 240
ctggatatgt tggggccaccg acgaccatgg attgctagtc tttataagac cgaaaaatta 300
gaaccccttg gggaaggcag agagattttg aaatttgcac gagctcaggc tcgaaagagg 360
gctcctaacc tccagcatcc tttggtttgc attga 395

<210> 4472

<211> 118

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220064d05a1

<400> 4472

gtgactgacg caccttttag aacttttata ccactaccac cacggacggg aagttgcgtc 60
tctattaataa tcccactaca ccgtcttcat taccaacaag gtttgtttta gttaagaa 118

<210> 4473

<211> 426

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220064e01a1

<400> 4473

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tacaagactc ctgcagctgc ggctcactga gcggctactc catatggata aattggcatg 120
atgaagatgc gcatgcgaat acagagaatg atatggaaaa agataccgac cgacggctac 180
attctgaaat catggaaata ttactgtctg aatacataat tctttgcaa agacctgtta 240
cttaatgtcg tgaaaccgct tattgatatc ctcttgaggg tttctagaac tgggggacat 300
attgccttga tgcccaggaa tcaatgatca actgacgtca ctattactga tcttattatg 360

atattatgtc tggattcgat cgaacaattg tgactcaaat tactcaggtt ataaacatac 420
gggtca 426

<210> 4474
<211> 334
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064e01d1

<400> 4474

acattataca ctttaaaatt tcacaatatt acattacttt ttcattattac acatggggaa 60
tcatgttata ctttgtacat cgtgtgaagt gaaaaattga accccttaat atttctatga 120
catgaccttt agtgcctttt ttgtttggcc tagtacattg aacactgttg ctgctatgtg 180
agatgggtga agaccggcta aagacaattg gtcagcaggt gatccatgat cgatttaacg 240
atccggaaga actattggcc gccacttcaa tttgccatct agaaggccat caagggccat 300
gaacttggca acatgagaac caaatcctcc aatt 334

<210> 4475
<211> 385
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064e02a1

<400> 4475

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atgggggtctc catttgctcg gccacgtca ccggctccac cagatgaaga aaaggccatg 120
tggggatatat gcattcctct ccgagagtgg agtgtattat tcccaccgac cgccgactcc 180
cctactagac accgccaact atcctattca tatgaagaat ctctctgcca aggagctgaa 240
acaactcgcg gatgaactgc gttctgatgt tattttcagg gcttctagaa ctgggggcca 300
tttgggctca agccttggtg tggcggaact cactggcgca cttcactatg tcttgaatgc 360
ccctcaagac acgatactgt gggac 385

<210> 4476
<211> 409

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220064e03a1

 <400> 4476

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 aagtcaatgg gaattaatct taaagatgct cgggttgaag tggagaaaat tattggaagg 120
 ggtagtggat ttgttgccgt tgagattccg tttactcccc gggcaaagcg tgttttggaa 180
 ttctcactgg aggaagctcg ccaacttggc cataattata ttggatctga gcacttgctt 240
 cttggtctcc ttcgagaggg tgaggggtga gcagcacgtg ttcttgaaaa tttgggtgct 300
 gatccaaaca atattcgtgc tcatgttatc cgcattgatg gtgaggggtg tgacagtgtt 360
 ggtgctactg ttggccctgg aagtagtaat aacaataaga tgccaactt 409

<210> 4477
 <211> 301
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220064e04a1

 <400> 4477

ctgacctgat acggatcagc ggtcctngca cggcncaata ccagttcgac gagactacca 60
 gtcggcgccc gccctttttt tttttttttt tttatgacct tgggaggtct ttaagaatat 120
 gcacccccag gggcacgggg agagccgtac atcacacatg agttgggcct cttccaactt 180
 aaaagcagag gataacattg gcccatgacg cgacacatgc accacctaata atcataatt 240
 ttacatcttt acatacaaaa tacaagact tttaatttta aaaagaagaa aagagattaa 300
 c 301

<210> 4478
 <211> 218
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220064e05a1

 <400> 4478

agtaaaatct gttaattttt atagcccctc caccatggac tgcacgaggc gagtttttac 60
 ctcatcacat gacaggggcc tcttccaact taaaatcaga tgtaacatt ggccgacgac 120
 ttgccacacg caccaggtga taagcatcat ttggcattgt gacatacaaa atacgcagac 180
 tttcaatttc acatagtaga acaggaataa gccctcac 218

<210> 4479
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220064f01a1

<400> 4479

gtcctttgtt ggggaagggtg gttttggaag ggtctacaaa ggcaggcttg aaaccactgc 60
 tcagattgtt gctgtcaaac agttagacaa aaatggtctt cagggtaatc gggaattcct 120
 tgtagagggt ctcatgctca gtcttctaca tcaccctaac cttgtcaatc tcattggata 180
 ctgtgcggat ggggatcaac gcctcctcgt ttatgaattt atgcctttgg gatcattgga 240
 agatcacctt catgatcttc cccctgataa ggaaccacta gattggaaca ctagaatgaa 300
 aattgctgtt ggtgctgcaa aaggattaga ataccttcac gataaggcaa atcctcctgt 360
 catctacaga gacttcaagt catctaact attacttgat gaaggatacc acccaaaact 420
 ttctgacttt ggtcttgcca agcttggtcc tgttggtgac aaatcacatg tttctacccg 480
 tgtcatggga acttatggnt actgtgcctc tgagtatgct atgactg 527

<210> 4480
 <211> 356
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220064f01d1

<400> 4480

gacaaaaggg acgggctcca ttatgccga gttcagttca gggggcaaaa agtcccgtta 60
 aaaaaccagg gaaaacaaag ggcctaaaag ggtatgttaa aaaaattttg ttaccagggt 120
 cattcatggg ccccccttgc aaaaaatggc tactaggcaa attttaagga aatcaaaacc 180
 tagtaaaagt atatggccta aaaggctggc tgtttgagtt gtttctctaa aaaagcccc 240

caaattttct tccattttcc atagccccaa gggaaaaaat taagccttaa aaatgccctg 300
gtggaaactt tggtttcttt tttggcccaa gttctttccc cacattttgg gtttaa 356

<210> 4481
<211> 438
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064f02a1

<400> 4481

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cagggagggc aatgcgggaa ccagatcggg tccaagttct gggaagtggg gtgcgacgag 120
cacggcatat atccgacggg gaagtacgtc tgaaactcag atctgcaact cgagcgcgtg 180
aacgtctact acaatgaagc ctctgctggg cgcttaatgc cacgcgcggg gctgatggac 240
ctggagccct gtaccatgga cagctgtgcg gaccgggccg tacgggcaga tcttacgccc 300
cgacaacttc gtgttctggc agtccggcgc cagcaacaac tgggctaagg ggcactacac 360
cgatggcgcc gagctcatcg actccgtcct cgacgtcgtg cgtaaggagg ccgagaactg 420
cgactgcctt caggggtt 438

<210> 4482
<211> 493
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064f03a1

<400> 4482

ccgaaaatga agaaagcagc gattttgaag tctctccaaa ccattatggg tgtcttctg 60
ctgatagtac tcttttagcag caacacccaa gcagaaaaag aaacaatcca cgaccatgca 120
aacaaaaaga cctacataat ccacatggac gagaccacca tgcccttaac cttcaccgac 180
cacctcagct ggttcgacgc ctccctcaaa tcagcgtccc cctccgcgga gattctctac 240
acttacaac acgtggccca tggcttctcc gccagactca ctccaagga cgtagacaca 300
cttgcaaac aaccggcat cctctccgtc atccccgaac tcaaatacaa actccacacc 360
acaagaactc ccaatcttct tggacttgac aaagccacca ccttgttacc cgcctcggag 420

caacagagcc aggtgggtcat tggactcctc gacaccggcg tctggcccga gctcaaagcc 480
tcgacgacac ggg 493

<210> 4483
<211> 321
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064f04a1

<400> 4483

cgcacagcag aagcttttgc agtttttata cgacaacctc aaatggcagc gagatttctt 60
ctatcagatg ctgaatttgg tggctctcca cagagatgac atcctttctg aagctgaggt 120
ctcagctttc aggacccatt tgctcgaaac ccttcttgct tttcccctg cgcaccagga 180
tcacgccctc atcatcaaag atcagctcat gtttgtgcac gatctcctta atgcaaagtg 240
catttccgat ggggagtacc actcttcaag aaggcctttg cttgtgagac tcgcagttct 300
aggaggtgag actgaaggca g 321

<210> 4484
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064f05a1

<400> 4484

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tcaccgacca tcatcgcttt ttcttcttta ctttctcctc agagtctctc actgtgccaa 120
aacacgattt ttgtattgta cctttctttt gagttctgcg cttttcgatc ttaagaagac 180
ataaaaagga gcaacaacat gttggagaag atcgggttgc cgtcaaagcc ttcgctgcga 240
gggaacaatt ggggtggcga cgcctcacac tgccagggat gttcctctca gttcaccttc 300
atcaatcgca agcatcactg taggaggtgt gggggaatct tttgcggcag ttgtactcga 360
caaagaatgg ttctacgagg acaaggtgat tcacctgtgc gtatttgtga accttgtcag 420
aagctagaag aggcagcacg gtttgtattg cgacatggac gcatacctgg gagaggaaaag 480
cttgaatcag cacctagaga tgaagatgaa gctttgaac 519

<210> 4485
<211> 98
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064f06a1

<400> 4485

gtcactgact agcctttttt gctttttata gccccacctc ctttgtgtgg aagtggccac 60
acattatgaa gcaagctaca ccattcttctg aaaatatg 98

<210> 4486
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064g01a1

<400> 4486

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ctaggggttag ggtttctgag agatgtggga tgttccatgc attgatgagc cttatcgcgc 120
gctgttgga ggcgttcggg cacggtgacg acgccgctaa tgccgccgcc gccgccggaa 180
gagaatgcaa ggacggcctc ctctgggttc gcgacatcgg aaagttcgcc gtcggcgatt 240
tctccatggc cgtcgtccag gccaaaccagg tctcagagga ccagagccag atcgagtcgg 300
gcgccttcgg ctcttcgctc ggcgctctacg acggccacgg cggccccgat tgctcccgct 360
atgtctgcga caacttgttc cgcaatctcc aagcgatatt ggctgagtca cagagtgttg 420
tgacatctga ggccattcaa caggcggttc ggcggactga ggaaggggtc acggcgcttg 480
tttcggagct g 491

<210> 4487
<211> 484
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220064g01d1

<400> 4487

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agtgttaciaa gttcgtgcgt catcaataag ttgtctcggt atcagtaacc atacgtggca 120
 gcactatgaa tggatatattc tagcaacgtg ccaatgggtgt attttctgga attggcacag 180
 ttgccagaac acccgtataa gagaagcatg tttacaaatc ataagagtca gtgatcgaga 240
 gcacttcgaa ttgtgagtgg cgtattttaga actgcgcctc tggatataag gtcgtgggttt 300
 aagaataaaa caataacagt tatatcgctg tgaaaatggc gacgaacctt cttgtcaatc 360
 ttgtaaaggt ctgaatatcg catttcacgc tttcttgctg cttcgtgtaa ggcagccttg 420
 acaagtctct tggcactacc cgcgcgtgga ctgctgtgaa caatatccac tggttgatca 480
 ttac 484

<210> 4488
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220064g02a1

<400> 4488
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 atgtttaagg cattgttttg ctgcagcaag ccccatgaaa ttgacattgc agactcctgg 120
 gactcatctc ctgatcatatc ccccaaacia cattctaaac caaagccaaa gccaaatgct 180
 gcacctactc attccaataa taaaciaaacc accacatcta caciaaatagg agcaattcta 240
 gggaaaccat acgtgaacat acaccaaatg tacgagatga agaaggaact gggaagcggg 300
 cagtctgggtg taacatatct gtgtgtggag aagacgacga agcgagagta tgcattgcaaa 360
 tccatctctc ggtcgaagct gctgagcacg cangagattg aagatgtgag aagagaggtt 420
 atgattctgc agcatctttc cgggcagccc aacatagtgg aagtc 465

<210> 4489
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220064g03a1
 <400> 4489

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tagaatccaa tccctcccct ttgaatttga tgccctctcg cattcaattc cacgctctgg 120
tgggcatcatc atcatggatc gaggtaataa caacaataac ggcgttgctg ttgtcgtcgg 180
ttgggtgcga acggggacac gctctgatgg tgccgtttag agtaaacgac gtgctccccg 240
tgctgccacg cgagatctcc gggggcggttc tgaacaacct gcacagggcc gtcgacctgc 300
tcccttatgg cgatggggcc ctactactg ccaatgcctc cgtcaagtgg aaaagggcat 360
gcttatttcg atacacccgc cagattgagc tcgcaccctc tt 402

<210> 4490
<211> 426
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064g04a1

<400> 4490

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atTTTTTgag gattttgagg ttgcgtgagt tcggatttgg agttggtggg gttgaagagg 120
gagggtttgt ccgtggtcgg tggaattcga gttccgtagt gtttttgttt tcttttaagg 180
ttgtaattgg ttgtgttcga agatcagggt tcggagatcg aaattaacgg tcggtttttg 240
gatttgagtg tccgatatga cttctctgag cagagaattg gtgtttctca tactccattt 300
tctggaggaa gagatattca aagaatctgt acacaagctt gagaaagaat ctgggttctt 360
tttcaacatg aagtactttg aggaaaaagt gcaggctggc gagtgggaag aggttgaaga 420
agttct 426

<210> 4491
<211> 501
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064g05a1

<400> 4491

gtcacgcctg aacaattccc tttttattt cagccttgag cggctcctgt tcttgtcaag 60
ttggagtga ttaggagctg cttaattcaa agaatggggg gagatgcaca gaaaagaaac 120

gtcatcattg gcgtctctac tttcttggtg gtggccatgg cggtcgcagt cacagccaat 180
gtcaacttca ataacaagg atcaagccgt gattcaaagg aagaaagcaa atcccatgtc 240
gcttcctcga tgaaggccgc gaaaaccctt tgtgcaccca ccgattacaa gaaggaatgc 300
gtggactatc ttattgtaca tgccagtaac atctccgacc cacgggaact catctaaatc 360
ggattccacg tgaccatctc caaaatctgc gaaagactcg agaagacaca actcatgcat 420
gaggtcgaga atgaccctat atccaaagtg gcactcgaca cgtgcaagct actcatgaac 480
ctttccatcg gggagttcac g 501

<210> 4492
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220064h01a1

<400> 4492

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tccgaaacca tttccgctct aatttccaag agcaaaccct aatccgctct ctctgtatga 120
tactagattt cccctcctca aaggcgtagt tttgtgtcga tttgtaaatt cattcggtag 180
tttaggttag aatttttgtg tcaagttttt agggttttga atcggtgaga tgaatcacia 240
caacagcaac aacaatagag cgaggtaccc tcccgggatg ggacttgtgc gcggggggtt 300
caatccgaac ctgagccaga acccgaacca gaaccagaac ccgagcctga accagaatca 360
tcacgcgttc caggctcggc cgncgtacca ccaacagcaa caggcgcaat atgtgcagag 420
gcatttggtg cagcagcagc agcaacagca gcagtggctg agaagggatg ccaacgccgt 480
cgacgaggtt gagaagaccg tgcagtctga 510

<210> 4493
<211> 383
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064h01d1

<400> 4493

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aactaccata ctaaaaacat gtaatgacca aataaatctg caaatgtaaa acaaaaaccc 120
aaactgaacc caataacttt ttggcaaata aaagccaatt ttaaactttt taaagggctc 180
aacaatgttt cagggctccc aaaacccgaa ttaatctgaa agccctcagt aatgggtaat 240
accaattttt tgacagggca ttcttttatg ccagggtcca ataatacaca atttgccact 300
agcttaacaa aaccttttac ccacctactt gagccacggg cacactaacc actggtatta 360
accgcaactg ttaacacaac act 383

<210> 4494
<211> 516
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220064h02a1

<400> 4494
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ctcttcggca tcaaagatct cggtcacaag actctccttc agagtgatgc actctatcag 120
tatatacttg aaaccagtgt ctatccaaga gagcacgagt gcttgaaaga gatacgcaag 180
atgactgcaa aacacccact gaacatcatg gcaacaccag cagacgaagg acaacttctg 240
agcatgcttg ttaagctcac gaattcaaag aacgccttgg aaattggtgt attcactggg 300
tactctctgc tctccactgc cctggctctt cccctgatg gaaagatctt ggctttggat 360
gtgaatcgcg aatactatga gttaggattg ccaataattc aaaaagctgg agtggctcac 420
aagattgatt tcagagaagg acctgctctn tcgttcttga cgagatgcct aaagatgaaa 480
taaaaggggt cgttgatttc gtttcgtgat gctgat 516

<210> 4495
<211> 520
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220064h03a1

<400> 4495
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caacgttgaa tattgttatt attcttgccc ggtattgaga aaatactttt tcgctgaagc 120
tctgaataac agaccatcat cgacagatgg ggtctgaagg tcctccagca gctgtggcaa 180
cagttcatgt aacaggtttc aggaaattcc atggagtttc tgagaatcca acggagacaa 240
ttgtcaataa tttgaatgaa tatttgaaca agaagaaggg tttgccaaaa ggcttagtta 300
ttgggagttg cagcattctt gagactgcag gtcaaggagc actcattccc ctctaccaga 360
cattgaagtc tgccattact tccaaggaat cagaatcttc aagttccaat aaaattattt 420
ggctgcattt tggggttaac agtgccgcaa cgaggtttgc tatcgagcgt caagctgtca 480
acgaggctac ctttcgctgc cctgatgaaa tgggatggaa 520

<210> 4496
<211> 408
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220064h04a1
<400> 4496

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tttcaactatt ccctctcatt cactctctag ctagtttctt catcatcgta gaagaaccaa 120
tacttgtact ctctcttact ttttaaccat gtagaatgat tcacctaagg aaaaattagt 180
agcttcttgt tgtgcttttt attttgtttt gttgtgagta cagataaatc tgtctggtat 240
tgttgtgcgt tctatgaatc attcgatggg cgaagaggga gaagaagtgg ggagaaagca 300
cggacaaagg gggcgctgat ggagacaaat ggtacttgta tagctgctta caagactggc 360
aatattgggtg ctggaattca atacacgaga ctagcaggtc tttttcga 408

<210> 4497
<211> 511
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220064h05a1
<400> 4497

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caaacctttg gtctttgatt ccaattccag ttggcttcta agaagagtgt tagagaagta 120

tttattgatac aggggaatggc tgggactgtg agtgaggaat ctggggcggg aaagtctgtg 180
 gagaggattt caactgggca cgcgttgtct atccggggaa gcattggcag agtggctgtc 240
 ttctgcgcag gtggagaatg gaatcgcgtc cacttctccc ccttactggg aactgatga 300
 cgaagatgat ggacaaaaac cggcggcggtt atatggaaga tatacatgga agatagaaaa 360
 gttctctcaa atcacaaaaa gggaacttcg cagctgtgca tttgaggttg gcggctacaa 420
 atgggatatt ttaatctatc ctcaatgctg tgatgtaagc aatcatctct cactgtctct 480
 gngttagct aatcatgaca aacttctttc a 511

<210> 4498
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065a01a1

<400> 4498

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 caaagccacc accacccaag ccagctacac cagaagcacc agcaacccca cctcctcagg 120
 gtggtgagca gccacagcag cagcaacaac aaccacctga ggagaatcct aatgccagta 180
 ctaatgaaaa ggcaggggac aatgctaate cagccccacc accagcatct gctgaaccaa 240
 tggagactga caaaccagag aacacaggct ctgcttaatt tttgttgatt ttgtctggtc 300
 tctacgtttt gtataacaat ttgaattgta cctggaaaaa tcgtcgtggg tgagagttga 360
 tgctgggatt ctttgctgga aaaattggta atgggtgaat tatctgagat tcggattatt 420
 tttggtcaaa tctacgttct ataagtggaa ttacaatgct tggttacatt tgagtt 476

<210> 4499
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065a01d1

<400> 4499

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 atccgaatct cagataattc acccattacc aatttttcca gcaaagaatc ccagcatcaa 120

ctctcaccca cgacgatttt tccaggtaca attcaaattg ttatacaaaa cgtagagacc 180
agacaaaatc aacaaaaatt aagcagagcc tgtgttctct ggtttgtcag tctccattgg 240
ttcagcagat gctgggtggg gggctggatt agcattgtcc cctgcctttt cattagtact 300
ggcattagga ttctctcag gtggttgttg ttgctgctgc tggggctgct caccaccctg 360
aggaggtggg gttgctggg cttctggtgt agctggcttg ggtgggtggg gcttttgggt 420
tcatacataat tggcttacag 440

<210> 4500
<211> 370
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065a02d1

<400> 4500

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tatcaaataa ttcaccata accgattggg cccgccccga atccccagca taaactctca 120
cccacgacga tttttgcagg cccaattcaa accggtatac aaaacgtaga ggccagacaa 180
aaacaacgga aattaagcag agcctgtgtt ctcaggaccg gcagtcaaca ttggttcagc 240
acatgccggc ggtggggctg gattagcatt gtcccctgcc gttttatgac cactggcatt 300
aagattctcc tcaggaggga ggggttgcgt cagcagaggc tgctaaggac cctgaggagg 360
gggggacgct 370

<210> 4501
<211> 414
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065a03d1

<400> 4501

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aacaagaca gagaaagaca atctgcaaac aacttaccga ccaaaactat tgatgaaaaa 120
agggaccgaa caaatgatga catgcatatt tcttactctt caagttcaat ttccttcag 180
taccacaaac caccaccaga gggtattttt tctcaatcag agtaggggtt tgatcttgaa 240

cctgtaaaga agcctctttt ttttcaaggt aggattgtct atggtgagca acaattttcc 300
 cagttcaaca actttaagc tattggaaac aactgggtca tcggtggggg acatctttgt 360
 ggccttctgt agataaccgt atatgcatct taacatcagg cttgaattca gcat 414

<210> 4502
 <211> 510
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065a04d1
 <400> 4502

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 agaattgagg agtttgactg agggtagaca ctgaaaaaga agatagagaa gaatccgttg 120
 ttacacgttt tactacaatg agagagtgat ggaaaaggcc aaagagagac tctcatgcta 180
 acacaattga aaacctaaca tattacagct acccgttcag gcaaatacgt taatcaaaag 240
 aagaaccctt aaatattaat accaaattac acgtacggtta ccgttcttgc gttgaatgag 300
 ggccccactt ggcaaagtaa ttaaagtnaa ttgtactttt agattaaata ttttgggacc 360
 tcattttttt tttcctttcc ttctttctct ttggacttgg tacattattg ctttctagtt 420
 cacacattgc tagctgtctc aatcacaggc acaggaccat nnttttggtta catgattcgg 480
 cttaacaacg tcaataatat ggcaatttag 510

<210> 4503
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065a05d1
 <400> 4503

gcaaccaaatt aaagcggaac ttgcattaaa tattggatga atgtatgtac attttaatag 60
 ctgagaaact aaaatagaca ggtgtccctg taggacgaag aggttggtta tcctatctgt 120
 atccacactc acataggtaa attcatctta atctcaacaa cgacaaaata gaaggtggca 180
 ctcaactgtgc ctttagctat aacttttccc accaatactt gaaggcagtg gctgagatct 240

caaatgatca gtgaccttgt cgatacacca agacaagtaa agccctcttt gcgtgaagca 300
 gccgtttaac tcaagttgaa taaagtacaa agggaacaat gagaaaaatg gtcaacatta 360
 agcaagtgtg acttgaacag aacagccata tcgcaagtgc aagggaacttt gaaactgcct 420
 ctggctctgg catataccta tgcgccccaa acgctgattg aacatatgaa ctactcgcct 480
 ggctgagga tactcttcaa ctttagtttc caaaatagat ttctga 526

<210> 4504
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065a06d1

<400> 4504

ggacaaaata agagacaatc atgtttaaaa tcgcccttgt atatcaactt aattacatta 60
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 gcaaggccga tacactccct taccaccttg cacaacgcac aattccgtac tatactacta 180
 tattaggagt gtataacagg gaaggcatat atactactac tactactact actactaatt 240
 ccacgacacg gtccaaaatt ggatggatac tcattcatgc catccatatt ctgattccaa 300
 acacaagcac tcacttgata aaacagtcag attcagaatt agaatttcct tcttcaggtc 360
 atattctcca actagatggc tttatgacag tcacctacta ctttccactc cagtccggaa 420
 cctggaagct atggaaatca aatctacgaa ctatcaggta tctgaagatg aatgattgag 480
 ctgacactcg atttctgtgc gtctgctgca ctttactgg cagattgat 529

<210> 4505
 <211> 484
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065a07a1

<400> 4505

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 accatgacca tggccatggc caccatcctg ctctgggtca cggctcttcgc gggttcatcg 120
 ggccgtagac ttgtcgataa tctagtacga caacgccac gccgccacgt cgggcaacga 180

cgaggagctg atgtccatgt gcgagcagtg gctagtaaag cacggccagg tgtacaacgc 240
gctcggagag aaggagaata ggttccagat cttcacggac agcctgcgat tcatcgacga 300
ccacaactcc taagaggacc gaacctacaa gctctgactg aaccggttcg ctgatctcac 360
caacgaggag tacagggcca tgtacttggg aaccaagatc gatcccaacc ggaggctcgg 420
taagaccccc agcgaccgat acgcgcctcg tgtgggacac atactacctg aatcggttga 480
ttgg 484

<210> 4506
<211> 307
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065a07d1

<400> 4506

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tcaacatata atataccacc ttgtttcatc tatttcaaaa ttggcggaac acagaaagtc 120
tttctctatg ggggaaaaat gaaagcctac caaaacatct ctccctttgg gattgaaatt 180
gtaaaacaaa tctccctcaa ttaataatat aaccttgtgt tcccgacaca ttttggcacg 240
gacttgtgaa cgaacaccat ggacctagtt gataaaaaac ggcccataaa aattcacccc 300
tgcttca 307

<210> 4507
<211> 452
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065a08a1

<400> 4507

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gttgctaata ctcattcctt catcattaaa cttcctgatg gctatgaaac acaggtaaga 120
aaaaagaggg ctgcaacttt ctggagggca aaaacagaga atagcaatag caagggaat 180
gctgaaaaac cctgcaattc ttctcctaga cgaggcaaca agtgcattgg actcagagtc 240
agaaaagctt gtgcaagaag cccttgaccg gtcatgatt ggccgaacaa ctcttgtaat 300

tgcccatcgt ctctccacaa ttcgcacagc tgaccttgta gctgtacttc agctaggaag 360
 tgtttctgaa attggaactc atgatgagct cttctcgaaa ggtgaaagtg gagtctatgc 420
 caagctttat aagatgcagg agatggctca tg 452

<210> 4508
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065a08d1

<400> 4508

aaattaataa ggatgagcat ctattcatcc atttcaatct cgttcctgta ttcgtctgtc 60
 attcccttgg taacattcat aaagacaaga ttacattctt gaataggaag agaaaggggg 120
 ggtagggatg atacacaaac tatactatgg tcaaaacaaa aatgccaata attaatgggt 180
 atatatatgg cttataatcc tgtagctggg aatttcattt gaatggctag ccttctcttt 240
 catcatcttt tggctctgtt gaagagcttg aacctgaggc cattccaatg acttggctgg 300
 tgtgtgaacc tttgtaactg aatcatgcgc gcataaatcc catccgggtg atttttcaac 360
 aactgtgaat gggagccttg ctgggtact ttcccatcat caatcacagc aatcagattg 420
 gcattcctga ctgttgatag cctatgtgca acgatgatag ttgtttttcc tgaggaggcg 480
 cggtct 486

<210> 4509
 <211> 118
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065a09a1

<400> 4509

ggacaaacaa cataaaacac tcatttgggg ttttaagataa aaaaaaaaaa acgcacgcat 60
 ccgtggacag caccaccaac accgacgctt actgtccgcg ccagattttc cagaagga 118

<210> 4510
 <211> 279
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065a09d1

<400> 4510

attattaaat tacccaatat tgatcgga aaagccatta tgggagagcc ttgctcacga 60
cagagtagaa aggtctttgt tgtttcgaga cagaaggtct gttccggcta ttagcagaag 120
aaggccaaca aaattgaagg tgggggcaca aagatgctct gattaaacat tcaatcattg 180
gcccaaccagg ggtgggcca tctccactcc ggaggaggga acagggtttt ttggaggggg 240
tggatccaat ggaacggatt ttctttgttg cacagtcga 279

<210> 4511

<211> 327

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220065a10a1

<400> 4511

gggccctcgt ttattatatt ttttttttc tccctcatta ctacaacagc gagggaaatc 60
aattcctcat cctggatact tccttctaatt ttcattttct tctcttcctt cttagaaaaa 120
aaaacaaaaa aaccacagct taatatcatg tatctagctc ttcattgtct cttgttcaat 180
aaaggttacg ctttaaaatt ctgaacctca caacttaagg caaatgttag cctacagatc 240
tgtgcgttga cccttggcag gatcagcttt tggaagggtt ggaattgttc ttccacatac 300
gccattgatt attccaaggt tctgttt 327

<210> 4512

<211> 319

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220065a10d1

<400> 4512

gcttataata tttttatatt tattcataaa aaaaataggc ccatacattt ggtaaatgaa 60
ttcggcggac accaaaatca cagaaatgta acttttttct atgataatca ctatcatagc 120
aaccctattt atttctgaag taaatgacag attatagggg gttgctaaac aaatctaaat 180
acagaaaaga atgcaaaaca tataacactc caagtggaag acaaaccxaa atcatatcca 240

cacatggttag ggtacttatt tgaagaattc ccaattgaac ttgggaggac ctgatttatt 300
 ggtctccgag ggatgtggg 319

<210> 4513
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220065a11a1
 <400> 4513

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 aagagcatgg ccttgttgat gaacctgttc ctgtaccctt taatatattt tggcaaattc 120
 ctcaagtaatt tcttattggg ggcagcagaa gtattcacat tcgtcgggca gcttgagttc 180
 ttctatgacc aatctccaga tgccatgcgt agtttatgta gtgctttgtc gctgttgact 240
 acttcacttg ggaattactt gagctctttc attctcactg tagtgactta cttcactaca 300
 caaggtggaa atcctggatg gattccggat aacttgaaca agggtcactt tgattacttt 360
 ttctggcttt tagccggact tagcttctta aatacctttg tgtacatagt tgctgcaaaa 420
 aggtacaagc agaagaagtc tgcttaagat ttttca 456

<210> 4514
 <211> 579
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065a11d1
 <400> 4514

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 tacatcaata gttacaaatg gtagcaagca atgtagagaa attgaacatt aactgcccatt 120
 gtttagccta aatggtagca ggcaatctca tctcatcaat ttcaggcttc atgagagagg 180
 gcagagacag ggctgttttg aaccatactt tgtaaataaa agaaacgtac ataactgcag 240
 aacatcttta ttccacatgc agaacaatca cgacattgac agaaggaaat agcagaatgt 300
 cgtccttcca gtccaaataa aatgcctgaa aaatcttaag cagacttctt ctgcttgtag 360
 cttttggcag caactatgta cacaaggtta tttaagaagc taagtccggc taaaagccag 420

aaaaagtaat caagatgacc cttgttcaag ttatccggaa tccatccagg atttccaact 480
 tgtgtagtga agtaagtcac tacagtgaga atgaaagagc tcaagtaatt cccaagtga 540
 gtagtcaaca gcgacanagc actacataaa ctacgcatg 579

<210> 4515
 <211> 516
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065a12a1
 <400> 4515

ctcttctgcc ctccacacaa cttttttctc ctctctctct ctctacaaat cacttctttc 60
 ttctcttcgc tgctcactgt agcgtagcca tggctttcag agttggagga gcgggaggag 120
 gaaaatgcct cttctggcat ggggtgttgct gagcatagcg tacgcacgtt cctggaattg 180
 cagaggaaga aagttcatcg ctatgtgatt tttaaaattg acgagaaaaa gaaagagggt 240
 gttgttgaaa aaactggagg ccctgctgag agctatgacg atttctactgc atccttgcct 300
 gaaaatgatt gccgatatgc tatctttgac tntgattttg tgacatctga gaactgccaa 360
 aagagcaaaa tcttttttat tgcattgtct acttcggtag cccgcatttc gcctaagatg 420
 ctatatgcaa catccaaaga caggttcaga agggagctgc agggctttca ttatgagatt 480
 gaggccacag acccaaccga gatggatctt gaagtc 516

<210> 4516
 <211> 337
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065a12d1
 <400> 4516

ggttgaggag ggagacccca aataaccctc aacaggggag gtttattcta gctggaaaca 60
 ggcaatctca tcttataaaa aaaaagcttg tgaaaaaaag gaaaaaattt gggtgaaaaa 120
 aaaaaggggt tgaaataaaa gattcccccg gggcctgaaa atttttaact tccaaacgca 180
 aaaaaaacc ttttttgggg gggggaaatg agcaaccctt ttgcgaaaaa aaaaaaaaaa 240

atgcggggag ggggtgtgcc caaaattcat aaggggggcc ctctggccg cttctaaacc 300
cgcatgtgtg gtgaggaaac taantccggg gggaagc 337

<210> 4517
<211> 535
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065b01a1

<400> 4517

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taggcaaaaa caccaccaa tgggagagga aaaggagcag cctaagaatg acaccgagaa 120
aaagcccag gaggtagccc ccaagacaga cgacggaccc atccctgtcg ttacaaaact 180
cgacttgc atgctgagggat gctgtctagaa gatcaaacgc acctgtcgcc acttcgaagg 240
tgtggaaacc gttaaggcgg atctatcgtc gaacaagggtg actgttaccg gtaaaatgga 300
cgccgagaag ctgagagata agattgccga gagaacaaag aagaagggtg atatcatatc 360
agctccgacg aaaaaagaag ccgccgttgc ggaaaaaccg ccggagaaga acgcagaaga 420
catgaagcct gatgagaaat aaccagagga taacctagag agagtactgt ggatttgaag 480
atcanactac actgtgacgg ttgcattgag aaaattcgaa gaatcattct taggt 535

<210> 4518
<211> 417
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065b01d1

<400> 4518

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gtacggcaac atctccttca cgtccatcgt tcccttcacc gtcaccaagt ccttgcttac 120
gtcagaggtc accaattgaa cacctttgaa cctaagaatg attcttcgaa ttttcgcaat 180
gcaaccgtca cagtgtagtt tgatcttcaa aaccaccgta ctctcttttag ggttttcttc 240
cggtgggttc tcttcaggct tcttgccttc tgccttcttc ttccggcggtt tttccgcaac 300

ggcggcttct ttttaggcg gagctggtat gatatcaacc ttcttctttg gtctctcggc 360
aatcttatct cgcagcttct cggcgctccat tttaccgta acagtcacct tggtcga 417

<210> 4519
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065b02d1

<400> 4519

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catgaattta aagtcttaca gggctgctgg tttcaaagtc tgcactaatt tcgttaacca 120
cacaatatag taacactgca agaaattgag.cacgaaacag ataaagcaac aagatgacta 180
aggttattaa ttattgatca ctgatcaaat aaactctttc tttcacaaaa tgtgaaccaa 240
atgaaaggaa gtgcttagac ttcaaaaaag tgcatatgct gtgcagcaca attattatat 300
attaatgtaa tcatgccctt cccaaaagaa acaaacttct agtcagatta atttgactag 360
cacttttatt cattctatcg ntaatttggg tggaacttat taagccctct tgaagataac 420
cctgaaggat ggaaccttat cactcaaaga caatgcttgt tcccatcatc accaacata 479

<210> 4520
<211> 398
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065b03d1

<400> 4520

gagtaagtaa caataacatg taacaaagat agcacaataa cacagatatt cccatagtga 60
ttatttttct acagattctc atccacacta aacaaattat ctttaatttag ggaatcggct 120
agtagaagac caacccaaac aaaagaatag aagaaaatcc aaagagcggc aagctcttaa 180
aaattctcag gactgtcatc caattgtttc tcgtcttcta tatcaacctc taaaatctca 240
gggatcctct gtttgagata attagcgact ctggcaggac agtggaacgc ttgtgccaaa 300
accgaccact aaggctaatt ttcacaaaag gcccatccaa gtcagctagt tcaaccactc 360
ctgtcatacc aacagaggtg tcaaagattt gaccagc 398

<210> 4521
 <211> 387
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065b04d1

<400> 4521

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 acaagattaa aacatttgat attggattgt gcatgtgcta taagaggcag ggtaaatttg 120
 atattgcagg gatgacatat ttgaaattaa gcacagtttg tagaacatgc atgagctaag 180
 aggcagctaa agtaaaatgt ttttttttat tctacataa tattgataat gcagcctttt 240
 ttcaagcaaa catcttccat tgggtccgtc agttaaaaat cctctgacgt gcatcattca 300
 tcaacgacta ccgtctcaag ctctcactat tgtagtccgc atacaactca nntggatcta 360
 ttaaccgctt cgaaagcagc tgaggca 387

<210> 4522
 <211> 490
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220065b05d1

<400> 4522

gctaggaaca aaataaaaact tagttaatta taattataac attcatagac tacgcagtct 60
 accttaacta atcaatcata cattttctaaa taaacttaat tctagagata gattgagcat 120
 aaaaaaata ctaataataa tttgacattt tagtagaaca ataagggaca aaattagtcc 180
 aaaccggta cctggtcctt tggcaagtgg acctcatgcc tctaaatacc ctattttctt 240
 gttattggct ttcacacttt tctcttctta gttaatgcat aaaacaacag tatcgatact 300
 ttatctccct ggttgacttt ttcaggtcat ctgaagacat atcttggact gcatcactgt 360
 ttaattgctt gttatcatat attggttggt ccagagttgt cccatttttc aaagaatatg 420
 aatcagcctg gtttggtctt attggtcttg aaagattctg gtctggtgaa gctggtacta 480
 ctctcttata 490

<210> 4523
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065b06d1

<400> 4523

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 taaattaaga gaaacagcta cccaacaaca gactaagcat cagctatgag ggaacatatt 120
 agaaacaaca cagccattca gtattgtcca aagtacaatg acgtttcttc caatccctgt 180
 tctcctcttt acagcttcca cggaagcct ctaactagtc gatgggagat acacccttat 240
 aagatctttc gcaacaacct tttttctaca ggtagggcat ttaccctgag cacttatagc 300
 agctttgatg caatccttgc aaaaaatatg accacatctt gtcgacattt catgtaccat 360
 agggcccata catattggac agttgaagac aagctccttg gaggttcagg tggcttttaa 420
 aactttgctc catggaactg ctaccgcctt ccaaatttat atacttatca caattaataa 480
 tcagatttgg caattc 496

<210> 4524
 <211> 434
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065b07a1

<400> 4524

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 ggatacatgt ctcatcttgc ggtgcagttc cctcctctcc gagacaagtg ccagaaccac 180
 tttccccgac ctccggcaact ttcgaatcga ccgggtaact ggtttccggc gtctcttcaa 240
 ctccgacgga cgcactcttt tcaactaccg tgttgccgat atcacaactc acgaaagtgc 300
 ttgcctttct gttgaaccat gtgatggaga attccttggt gcagctgctt ttgagatgaa 360
 gaacacagag attgcagcat ttattgaacg ggagcgcgaa tgtcgatttt tagctgttgt 420
 ccctgaaaca ctag 434

<210> 4525
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065b07d1
 <400> 4525
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 acaatatata aatattattc taaacatttg ctggccctat taatatatga atatatctgc 120
 atgctagaaa atagaaatct gctttgttgg gtttctaaca actactactt gtcaccgcca 180
 ttcaacgttc gccacagtga ctcttcaatc ttcaatccag atggcagatg ctataataag 240
 aaataattgg aacagccaaa ttcaaaaatg gcgaattgag aactgtatcg agtatcgact 300
 ctgtgatgac atcaatcaac caccataacg ggttttcaaa gaatcaggtg gctcttctta 360
 caagatgctt gtaccactt tttcaaagta ctgacgtatg gtcggtttac 410

<210> 4526
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065b08a1
 <400> 4526
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 aacctatct tcttcttttt ccactttccc tcagaactct cttagattta gctgtttcca 120
 atcgggttcg accaaaaacc cattaacccc tttgcagaa aagcaagatt gtgctctctg 180
 caaggggtcaa cgagtgtgaa aagcagaaaa agtttggtgc tttgtgctac caacatgact 240
 atagcagagg atagtttggt gcaggtggtg gaggaggaag agggtcctcc tgattttgct 300
 ttgcttgatc ctgaggacaa ttctaggcct cgtagaattg ctctcttcgt tgagccttct 360
 ctttttgc atgtctcagg atacaagaac cgtttccaga attttataaa ataccttcgt 420
 gaaatgggag atgaggtgat gggtcgtgac aacacatgga gggagtaccc aaggaatttt 480
 atg 483

<210> 4527

<211> 520
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065b08d1

<400> 4527

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aaccaaccac acttatgtcc cataataggc ttccttaaag ccaaagcaat gaacaattca 120
aagaaccatc caaagctcaa aagaagcatt tgctttgcat caatcaccac gctatgtggt 180
ggcttctgga tctggagatt ggaaaatacg ttgagccaac cattgaaagg gtctcaagag 240
ttgagccctt ttcttgcgcc agaaccaaat ggcagcattg tagttttcat tgcgaatctt 300
ctgagtgggt gctctccaat catacttctc catctacaaa cgtgcagctt ctccatgggt 360
tctctaactc tttgtcatcc aaaagcgggt ttagtttgct caggcaatct tcaagatccc 420
tcggtgataa gaggtaacca attttgccat cttggctctc tggaaatatg tctggaacgc 480
caccggcacg cgctcccacc acagggattc ctgatgacat 520

<210> 4528
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065b09a1

<400> 4528

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cttctccag aatgtccat tgcattgagaa tatttaattc aatgttgcat atcattataa 120
aatgattcct catgaaccgg acccacatgt gttgcctatt acgttaattt actttcttgt 180
gtaaattaat gcaactaaaa ctgttattat tgttggtttg tgctttgttg agcactactc 240
cattgtttgt ggcgaaagat aattatagcg tgcaaaatta tattcatggc agtgtatatg 300
tgctgaaatt gtaaagtatt ttcattaata aaattggttg agttttattt anaaaaaaaa 360
aaaaaaaaa aaccaagaaa ataacaaatt cacaactaag tttacaactt taatgctgaa 420
taaaataaat tataaaaaaa aaaaaagggg gggcggtccc 460

<210> 4529
 <211> 389
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220065b09d1

 <400> 4529

 aaaaaaaaaac cccccattt tttttaagga aaaacccttc aaatttcgc ccaaaccccc 60
 ggccgaaaaa aaaaaggggc cccccaaaaa tattttcccc caaaaaaagg gggggggggg 120
 caaaaaaagc ccaaccccaa aaaaaaacg ggggtggggg ggttatttcc ccaaaaaaag 180
 aaatttcccc tgaaggggcc ccccgggggg gccccgcccc ggggggcatt ttaaagggg 240
 gggcccatg gaaaaaaaaat ttccccgcc gggggccctt tggggggggg gcccgggggg 300
 aaaccttttt ttttcgggca aaaaaaatcc cgggtttcaa attttgggcc ccggggccga 360
 atttgggggt taggggcggg gggggggga 389

<210> 4530
 <211> 496
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065b10a1

 <400> 4530

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 gtcaccaact actttgactc ctttaccata ccattacaat aattatcaaa cctaaccagt 120
 aaaaaatggt gaccgggaa ggaaatccgc aacgctcagc gttcccatgg acccgccacc 180
 atcttggcct tcggcaccgc cagccgtcc aactgctct cccaagccga ttaccctgac 240
 tactacttcc gcattaccaa cagcgaacac atgactgatc tcaaagaaaa gttcaagcgc 300
 atgtgtgaaa agtccatgat aaagaagcga tacatgcacc tgacggagga gtttctgaaa 360
 gagaaccga acatgtgcga gtacatggcg ccacgctgg acgtgagaca agacgtantg 420
 gtgatggagg tgccgaagct gggaaaacaa gccgcaacga aagcgataag gagtggggtc 480
 aaccaaagtc aaagat 496

<210> 4531

<211> 319
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220065b10d1

 <400> 4531

 caataacaaa cacacgatct tgttcatatt aaattattct tgtacaacat tatgctacga 60
 taaatccaca agtgaaacta gtaataataa caaactttcc ctgggtatttc cgagggttcc 120
 ttattgatca ctcttaaadc actagtcacc gcatcagcat gatttatccc tccaaggga 180
 cactgtgaag aacaacggtc tcaacgggta gacccggccc gaatccgaat agcaccccc 240
 actctaacc ttctccagt gtactcttcc ctctctctt agacttcttc ctcatctcat 300
 ccagaatgaa caaacacaca 319

<210> 4532
 <211> 321
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220065b11a1

 <400> 4532

 ggtgtacgca gatcttgtgc actttacgct cttegcacct gctttctgct gttgttcttg 60
 cggattggct ttgtggggtg tgacaaattg tggtttttct gttgagggtc tgaaagggtg 120
 tttttttgtg tgtgtgtgtc tggaaatgag gtgcttttgc tgaagggtgt tgggtggtgt 180
 ttttggtttt gaagattgtg gctgtggaaa gggaagggtc atgtgggatc ccaattgggt 240
 tctatgtttg gtgaagaagg gtttgggaga agggagaaaa agctgggatt gttgtgggtt 300
 tgtgataatg agcaggggta g 321

<210> 4533
 <211> 464
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220065b11d1

 <400> 4533

 gaggtatagg atgcgaggct tttaaattcc attaatccaa ttaaaataca aacatccaag 60

acatctgttt caagattgtg tcttcactgc aaacacctaa aatggttatg gattgactta 120
 caagatagga ctcaatttca tcgtcaacag tctcatgata gttgtaacca aagttcatac 180
 cctttgtagg ccagagaaaag ctgacacttt tttctaagga agcactgcct ttaagcctct 240
 cactctcatt ttacacaaa ccatcaccag agactacaac agtccatcc ctaaaaagtg 300
 tctttttctc taacaggatt gctccccctg gccaaaatat tcacaagaaa aacacccttc 360
 ttctagaaca ttcttgtcat accatactga acaggaccaa cttttctatg agcagtggcc 420
 ccagctgcag caccgattcc accatattga tgtgcctttg gctg 464

<210> 4534
 <211> 551
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065b12a1
 <400> 4534

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 gccttcaatt ctcccttctg gactacaaat tctggtgctc ctatttggaa caacaacttc 120
 tctttaccgt tggagctaga ggtccaattc tgctggagga ttatcatctt gtggagaagc 180
 ttgcaaattt tgatagggaa cgtatcccag aacgtgttgt ccatgccagg ggcgctagt 240
 caaagggttt ctttgaggtc acccatgaca tttctcacct gacatgtgca gatttccttc 300
 gagcccctgg agttcagacg cctgtaattg ttctgttctc aactgtcatt catgagcgtg 360
 gtagccctga aaccttgagg gaccctcgag gttttgccgt gaagttttac accaganagg 420
 gtaactttga ccttgttgga aacaaccttc ccgtcttctt gtacgtgatg gcatgaagtt 480
 tccagatatg gttcatgctc ttaaacccaa tccaagaac cacatccagg agaattggag 540
 gatccttgac t 551

<210> 4535
 <211> 562
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065b12d1

<400> 4535

actaacaat acaaacggca ttattgaga taggtcaacg agttgcattc atggagttat 60
gggtacacac aacataatat tgcaagaaaa ggattagttc tttcaggtaa tccaaaatca 120
catccttata gtactctttg cacgtctgca actctaaca tcattctgga gttggcaaca 180
acattaaata tttggcctcg tgctgagatg agaagctatc ttttggccta gagaacggtc 240
agcctgagac cagtatgata tccagacact tgcggatctc atgggtgacc cgtgggtcag 300
ataaagcatc aacccatcgg cgagcaaatc tatcttgctt gtcaggtgcc caagaccggt 360
atctctctcc gggctgcgtt gaagttgttc tccttctcaa ttccacactt ttcacgcctt 420
ccactgcaga tagcngagg tatggggaac ctttctgcat gacgacagga tcataccttg 480
agggaagtaa ttgacctct atccctgtga atgaaattca tgaaaccttc atgatgatta 540
ttgtggtgag cacactttgg ag 562

<210> 4536

<211> 539

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220065c01a1

<400> 4536

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cgattcgta catgtagttg tgggatttcg gctttgccac ttcttgattc caataatttt 120
ggtttctttt tttccctaa ttgatttcc ccagttaggg tttttaactc tattcgatcg 180
gcgatttcca atactcggag gctcgaatcg tgttgggggt tttccgtttt gattaaaaaa 240
gtttccgttt tttgtgttg gtgatcaagg gttgtttgat tttttcttg cgatcgagaa 300
tgggtgaagc ttccggagct ggttccgctg attgtttcag ccagatgatg tcgtcgatgc 360
ctggttttcg ctttcatccc acggatgagg agttggtgat gtactatctt gaagcggaga 420
tttgtgggaa gaagctgaag ctcgaaactga ttcataaaac cgatgtgtat aaatgggatc 480
ccgaggattc gccttagcaa tctatattga aactggagat tggcaatggg tcttttctg 539

<210> 4537

<211> 271

<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmfl02220065c01d1
 <400> 4537

gaaaatatgt taggacagca ctgttttgaa attctgggga aatcccaaac aacagtcatt 60
 ttgggagggc ccagacaaaa tacctaacaa caaaactttg gatttacata aatatattca 120
 aggggaaata cttttaccta ctagtcttaa gtttccaaca taaaacccaa caaaaagccc 180
 ataaagcaat aagaattgat aataaaagga atggaagtcc ctttctgcca actcttttca 240
 tagttccagt ggctttacct gatgcagcaa t 271

<210> 4538
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220065c02d1
 <400> 4538

cacaaaaatc gggttaatth tttgaaaaaa cccggcctac cgaccttttt tacaggaacc 60
 aattaaatth cttccgaaag aaaaaccctc tcaaagaagg gaaagaaaaa ttttttaaaa 120
 aaaaaaaatg ggaaaaacca gcttccttat ttacatggaa aggggggttcg aaattttaat 180
 ttggaaacgg ggaatttgcc aattggggag cctccccgaa actgggaatt ggagtcgttg 240
 ggctgtttat aaattttggg ggggcccac cccatcacia ggggttcgtaa gggggggggg 300
 gaacttggtt aaaccctga atggggccta acggaggggg gggaaagaaa catgggcatt 360
 ttttctggcg tggcggggga attgccaacc cctcctgcgg gaccaccgg ggggtgcggg 420
 cccttccttt agggggc 437

<210> 4539
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065c03d1
 <400> 4539

caaagaatgg tattactaat accagaatgt acttttataa ttatttatat acaaagagaa 60

cagttgtgga ttccacgtcc cataataagg ggcttttctt agcatccaat aaggtgaggc 120
 ataaggaaga caagcctagc cttaaaacct ttctctcaat cagaaacata tatttttctc 180
 ttcttctgat gaatgaaatc aattctacaa aaatcagcaa tatacaaaca tatttcctat 240
 ttgacaattc agctaataaa tgaatgaagt ggctttttgg atcttatctt cctaaaataa 300
 gctcaatcta tacgtcattg ccacatggnt tgatgctgga atgtgactaa tggcggggta 360
 agtgaatgaa aagtgtagcc cctctgtgaa agtttgatct tccaaatgaa ttgaattgaa 420
 ttgaatt 427

<210> 4540
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220065c04d1
 <400> 4540

atagatactt tgcctttcat aaaaaaata aaaatggaat gaagttgaag agtaggcagc 60
 gaggaaaatt gacagtttca caccatctgg acccaaatac cctggcttgg aatttcttga 120
 tgaaccagaa acagcagata gaaacccggt ggcgcaagaa cagcggaaac cggcgcggta 180
 acttcaacct cgtacgtcga ttccccaacc ttactcaaat cgtgtggctc cagcaccagc 240
 atcctctgat tcatggagaa cgagtgcgtg ttaaatggcg gcgacagcat cgtaaccgac 300
 accgaatccc caaccaaagt cgcgctcatc acctcaaacc gaagcctcaa cgtttgaccg 360
 tacttgagtt ttgtttggga 380

<210> 4541
 <211> 278
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065c05d1
 <400> 4541

aaaaaacata attttaattg acactctgtt ttacatttgt attaaataaa aaggggtagc 60
 ttttgggttt attccaaatg gaccgaataa ccacactcca aagttgaaaa aacgcaaaca 120

agggggccctt tattccccctc gcttttgaca aaaaaaaaaa aactttgtgg gcaggcttat 180
 acaaactgca tagttgagga tttgcatggc naggcgaacg ggaaatatgg tgtaggaaaa 240
 aattcatgtt gtggccatac cgtctatgat gcttgggc 278

<210> 4542
 <211> 570
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065c06d1

<400> 4542

attcctctct tctcatcaca ttatattata tatttcttaa ttaacaccta ggacatatat 60
 atgtctacac caaacatata gctacaataa tttctcacag aaaagacatt aatccttgat 120
 gagtcccat tattggttgg ctggcgtgtc ttagcatccc ctccaactct gtagcaaacc 180
 tctccatggc tttggctggc aagctaattg gtaccactat cacatgctct cctttgtggt 240
 tcttacatga cacgtacacg cttgtcattt gagggaaaact tgtcattcca cccgtggcag 300
 gccaccata aatgggcttg cccacccaa aatcaacctc atcaagcccc aatacgtgta 360
 gtattcgaaa caaggtaggg acctcgtagt tgcttgatgg ggtcttcctt tcaccacaat 420
 taaatctgag gtagagcgca catactccta tccacgttgg attntgcatt ttttaccaat 480
 tccaaagcat acccaaattg attctcgcat aaccttcgtg atgtgggttac cgctgccgag 540
 agcacaaatc cattaccgta ataacccttt 570

<210> 4543
 <211> 532
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065c07a1

<400> 4543

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 tcaggaactg ctgtggaagg gtctgatatc tatgggcagg ctgcatccaa tctggttgct 120
 ggaaagcaac ttggaaggga acaattcacc aaattcttga tatgggtgga gggagctggg 180

acagggatac cgttggtccgt gctcttcgag ctgcctacaa caaccctgag agagctgttg 240
aatatttgta tacaggtatc cccgagcaag ctgaagctcc acttgtagcc caagtgcctg 300
caagtgtca acctacaaat cctcctgctg atgctccaca aacagcacia cctgctccag 360
ttacctcagc tggacctaat gctaattcat tagacctttt tccccagggg ctccctaacy 420
tgggttctgg tgctgctggg gctggttcat tagacttttt acgcaataat caacaattcc 480
aagccttgcg agctatggtg cangctaata cacaatatatt gcagcctatg ct 532

<210> 4544
<211> 471
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220065c07d1

<400> 4544
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cagtctgtgt caaacgaatt acacatctat cgacttgca atgaacaagc atgcacaatt 120
acacacgtta aaaggatgca caataccagt aatacaaggc aaacaactat gtatatgaaa 180
tactaagaaa ccctcgacgg gctggaaatg ataaatacat gggcaataat atggaggaga 240
ataaaacatc ctttatccac ttgagatttg acattatcaa aagcattacc tcattaaaca 300
tagtatgtaa caaagaccca tcgagaaaaa agatgacacg aaataatttg gcaaattcga 360
aggagatcta ttgttcctcg aactcatgca tgtgatcaa aggtagttgg cagccaattc 420
ctatttttgt tacagcgaag tacacctcca tacgatgcac gatcaaacc a 471

<210> 4545
<211> 518
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220065c08a1

<400> 4545
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tttgagcaca atggcatcca cacaatgctt cttgcaccac catgcctca cactccaac 120
cagagcttca tcacagcgct tagttgtgag caccaaacca aaccacattg tttgcaaggc 180

acaaaagcag gttgtccaag aggggtgagga cactactaac attgtctctc gcagggttggc 240
 cctcactggt ctcattggtg ctgctgctgt tggctctaag gttgcacctg ctgatgctgc 300
 ctatggagaa gctgccaatg tgtttggaaa gccaaagaca aacactgact tccttcata 360
 caatggggat ggattcaaac tctcaattcc ctcaaagtgg aaccaagca aagaggttga 420
 gtaccacgt caggttctta gatatgagga caaatttgac tcaacagcaa tgttgctgtc 480
 atggtcactg caactgacaa gaagtcctc actgacta 518

<210> 4546
 <211> 361
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065c08d1

<400> 4546

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 ttaaaagaca tgaaaaatctt agaatcaaag tgcttactcc aaccaacagc ctcaaaaact 120
 gaaacttggt gacaaaaagt ggccacataa ttcaacacat acacaccctt tcaagatgat 180
 tcacatgccg aatagccctc cactgataag ttcttaggca aactgaaag aacttgctgt 240
 gctctccaca aatttttttg ctcccttaaa ccattttttg tctccagctt gagccttgca 300
 aatgtatagt ttgccatctt ttacagttgc tgcaatcaag tgggtgcttgc caccttcatt 360
 t 361

<210> 4547
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065c09a1

<400> 4547

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 atgttgtaa tactcacggg ccgaagggga ttaaggtttt tgttcaacca agttcggttg 120
 ctttttaaga agaccggaa aaaggaatat gtttcaggtt atactgcaac caattggtgc 180
 ccggcgtggg ttatttggga atttgccttg gacagatggc aagctcagaa taaccaggcc 240

tatcacaatt ctgccttaca aattactctc gatcaccatt cttatgctat cattgtcttc 300
 ttatgagtgt gttcgcattt gctgctcttt aggctgtcat atgagcgtgg cccctactcc 360
 tattgcatta agctcttttt ttttatttgt ttatgtaaag ccttgtcata aattaggcat 420
 tcttaaaatg ctgatggaat ttgagc 446

<210> 4548
 <211> 407
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065c09d1

<400> 4548

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 cctaaaaaaa aaaaaaagaa gagcttgtgg cagtaggagt tggaacacg ctcttattac 120
 ggcctagaaa acagcacatg caaccacact caaaagacga cgatgataac ataagaatgc 180
 tgatcgagag taattgataa ggcagaattg ggataggact ggtaactttg ggcttgccat 240
 atggccaaga caaattccca aataaccac gacgggcacc aatgggctgc agtatgacct 300
 gaaacttctt cttttctccg gcttttttaa aagtcaccga acttggtggg acaagagcct 360
 taatccccgt gggcccggtga gtattcacag agacgtgctt ggaggcc 407

<210> 4549
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065c10a1

<400> 4549

gaattttctt catccttctc tgttctccta gaacttgatt acttgaacat tccctatgac 60
 agatgaggtg gttcttctgg atttctggcc aagtccattt gggatgaggg tcaggattgc 120
 acttgctgaa aaggggtttc gatatgagta caaagaagag gacttgagga acaagagtcc 180
 tcttctctta caaatgaacc cggttcacia gaagattccg gttctcatcc acaatggcaa 240
 acccatttcc gaatccctca ttgctgttca gtacattgag gaggtttgga atgacagaaa 300
 tcccttggtg ccttcagacc cttaccagag agctcaggct agattctggg ctgattatgt 360

tgacattaag atacatgac ttggaaagaa gatttggaca tcaaaggag aagaaaaaga 420
agctgccaaag aaggagttca tagaggcct taaattgttg ga 462

<210> 4550
<211> 572
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065c10d1

<400> 4550

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atnttaaaac ctacacaatc caacagaaag catgaagttt ggcacatcca aatgcctttt 120
tattacacaa atattattta gttgaaaggt caagaacgac caatacttca ctatggctat 180
taagatccaa catgaaacct actcgatgac taacttcttt cttatctcca caacgaactc 240
atagaccttg tgctgatcag gaagagactt tgcaaacactc tctttctgta ggcacctctt 300
ggcccaagca acaaacctgg ggcactcatt ctcaatgttg aggctgccaa aagtctcata 360
gactttgacc aagtgtagaa tggaacaagt gctatatcca caaaaccaat attgtctcct 420
ccaaataagt cttatctccc agctgttctt ccaacaattt aagggcctct atgaactcct 480
tcttggcagc ttctttttct tctccctttg atgtccaaat cttctttcca agatcatgta 540
tcttaatgtc aacataatca gccagaatc ta 572

<210> 4551
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065c11a1

<400> 4551

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cagaagcttt agatgattct catgaagcaa ggaacactgc tgctgttggt aacgagctgt 120
ccaaaggaaa taacanaaat ttgtgtttct catcctgtga atgctaaacg tgctgcagaa 180
gggaagaaca tagcaaatgt agacctttta agaggctgtg gcattcgaat tgaggttaca 240
ccatttataa atagacatgg ttgtcgcca tgcatggtag ctccaacgaa aataattgct 300

ggcctgggct tatcacttgg tattgatatt ctagatgctc ctggagcaac tggggactat 360
cgaactttac taacatcaaa agcatcagca atagctaagg cactctcagc tcctttacag 420
tcctgtccca gagtttttgt tcctggagag gatgagctta aagcaggccg gtcagatggc 480
tatgactttg gattttcttca tattaaggca atagatgatg ctggccatga caaggcgagc 540
atcctcaggt canagcatta gaagctgtag ataaag 576

<210> 4552
<211> 581
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065c11d1

<400> 4552

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acaacagaga aaaatttatt taagttgagt ttacattggt attttcagaa caaggcttct 120
tattctacaa atagtacaga aaatcaaaat ttgatttttg taccttgaaa tcacttgatt 180
tcagagtgag aaaagaaaaa tattaactgc cataacactc cctcttecta gctaagcagt 240
tcccgcatct aagttaagga atttctttac aattcccatc atttctcccc cagggaaaacg 300
ccccagacat ccctttgcag ctgccacttc atttagctca taaaccgaat caccactata 360
agcttgacaa catttgnctc ttctctcttc tgtttccaaa tcatcaagcn aagtcttcac 420
ccgacttaac actcggaata ggaaatgggt caagagaagt tttgagaatg gtggattccc 480
caattgcacc aacaaagtct ttcaaccggc aaattgtgaa cgggaccgat tcaaagctat 540
gatctncata ttctactgga gtagagtgat ctctgtgaca c 581

<210> 4553
<211> 317
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065c12a1

<400> 4553

ttcagaagct agtatTTTga agctcaagaa ttacctgaag aaaggatatg ggctgacttg 60

tgaaattcca gctaaaggac ctgaagtga acctagggat aatagtggg cacaggggtca 120
 tggtttcaag cagaatatta ggggtcccaa aataggtaaa tcaagtttca agcgacagtc 180
 tcaacgcatt ttagcttcac agacacctgt atcagaacac aaagagcatg ctatacatat 240
 tggaacagaa tccaattat caaaagacac agcagattgt gagaacccaaa gttgtactga 300
 tgagaaaaac aatcagc 317

<210> 4554
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065c12d1

<400> 4554

aagctaaaaa aaataacttaa atataacaga ttaaacaacac ggggtgcaaac tataatgtac 60
 taattcacat tatataaaaa atgggtatag aactgaatt aactgtacta gaactaccac 120
 aagtcctttg tcttgaaggg actctgttgt ttctaaaggg ttttaagggt tttcaataact 180
 agtaagcttt ccaccacata ccaaaccatt ttacagggga tggtttcttt gctctgaaga 240
 caccacacaa gtagtacttt tcttgaaatc ttcggcattg aataggggggt aatatagaag 300
 gaaaaattag aagctctgca ttttcaacct ctgttcttaa ggaaagggtca aagtacatca 360
 tgctctctac cagcttgtga aaggccctct caactctttc actatcagga aaaaaataaa 420
 gagcaat 427

<210> 4555
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065d01a1

<400> 4555

gaaacccgaa acgtttcggc ttgcttgacc cgtttcgcgc ttatctctct actcaatggc 60
 ggtgcctccg tcttcgctgg agaagccatt cgatgacttt aggggttcagc tggaagaatc 120
 tggaaccttg cgcgaacgaa ttcgaagcgt cgggttcagag attgagtcct tcactaggct 180
 catctatgcc acattcttc tcggtcacca gtctcgtccc actcccgagc ttttagagaa 240

ggccaagtct catgtgaatg tgttaaagaa gccgtataag caactagctg aagatgttgg 300
aggatgccct gtgcaatact ataggtacca tgggtattgg aagagtgaga cacagtctgt 360
agtttcaatg cttacattta tgcactggct tgaacagga cgccttctcg agcacagaga 420
ggctgatgaa aaacttgggc tgaatagttc acaatt 456

<210> 4556
<211> 175
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220065d01d1
<400> 4556

cttactgaca aaagaagggg caatcctaag aaacagcccg gcaaaaaaaaa aatgaaaacc 60
aaaaccaagc aaaaagaaca aaaaagaaaa accacaaaaa caaaaggaaac aaaaattgaa 120
aaaaaaagag aaaaggggca aaaccatcga ccctataaga aaaagaacgg gagac 175

<210> 4557
<211> 394
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220065d02d1
<400> 4557

ctgaagatag catcttgatt caagcattct acgactagaa aaacttgcag acttgacatt 60
actagtcatt tacgtacgac gggggattat tatagcattt gaatttgaca ctaaagtttc 120
aagggaagtt aagcagcttg atagatacta gtactatata tctaagggtc atattgtaat 180
agggaaatgt ctagtttcat cacctcgaga gagggagaat gttgactttg gagtcttatt 240
gccatacttg acactaattc tggattctcc taagaacca taaaagctat aggaaccgtg 300
cacatttgag actcccttta cagacccgt ttgccactct tgaagaagtt tgtccaccgc 360
atcacctgct gggagggctc tgaattatt ggct 394

<210> 4558
<211> 323
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065d03d1

<400> 4558

atagatactt tgcctttcat aaaaaaata aaaatggaat gaagttgaag agtaggcagc 60
gaggaaaatt gacagtttca caccatctgg acccaaattc cctggcttgg gaatttcttg 120
atgaaccaga aacagcagat agaaacccgg tggcgcaaga acagcggaaa ccggcgcggt 180
aacttcaacc tcgtacgtcg attccccaac cttactcaaa tcgtgtggct ccagcaccag 240
catcctctga ttcattggaga acgagtgcg tgttaaattg cggcgacagc atcgtaaccg 300
acaccgaatc cccaaccaa gtc 323

<210> 4559

<211> 439

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220065d04d1

<400> 4559

atagatactt tgcctttcat aaaaaaata aaaatggaat gatgttgaag agtaggcatc 60
gaggaaaatt gacagtttca caccatctgg acccaaatac cctggcttgg aatttcttga 120
tgaaccagag acagcagata gaaacccggg ggcgcaagaa cagcggaaac cggcgcggt 180
acttcaacct cgtacgtcga ttccccaacc ttactcaaat attgtgggtg cagtaccagc 240
atcctctgat tcatggagaa cgagtgcgtg tttaattggcg gagacagcat cgtaaccgac 300
tccgaatccc caaccaaagt cgcgctcatc acctcaaacc gaagcctcaa cgtatgacac 360
gacttgagtt ttgtttgtga cgcaggaaac actattgtgg gacgcacgct agagaattca 420
tgctcaagat accaaggag 439

<210> 4560

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220065d05d1

<400> 4560

gactaattaa atcaaaacgg aaaggatcaa ctatagatat tactaatact aactaccaat 60

acccatgttc ttcaagaata caatttcacc cgtaagcagt gttaaaagaa agaacagaaa 120
 ggaacgggta gaaaacaaaa aatgtccaca tgactgtcct ctctcacttc tgaccaccag 180
 cctcagttgg ttcaaccacc tcagcttcta caatttctgg ggtatggggc tggtttaccg 240
 tggactggaa ctgaccaggt gtagaccatt taccagttag agccataccc atcatctcat 300
 atatcttccc tccaagttgt gctggattat caggcgtaaa accactggaa accaaagcag 360
 catcatacaa aagatcgata gctctgaggg catcttcacg gtcagaattt ggtttaaatg 420
 cagcatncaa gttcctgata tagaatgggc agggttgatc 460

<210> 4561
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220065d06d1

<400> 4561

gaaataactcg atatagatgc tcatagttat ttgcacaaaa ctggtaaaat tccagatcaa 60
 taaggattgc ggccaagccg caaagataca acattcatta gggaaaacag gagtggggaa 120
 aaataagggg ggaggggttg aggaagaatc aattgctcac agagcatgct aagacaccta 180
 aatattccac acacagttat tgaaacaacc caatatagag aaaatttttc tttggtgtat 240
 tataatataa agcagaacca aatgacttgg aagattctac tttcttatac cattcacttg 300
 gcaagttcgt tgccgatgag ttttgctgcg gcaaccatgt ttgtgagggc tggcttacct 360
 cagtgtactt acgggtcttg agcccacagt cagggttcac ccacaagatg ttcttctcga 420
 gcaactgccag catcttggtg attctgtcag caatttcttc agttggtggt attcttgttg 480
 agtggatgtc atagacacca gggccaattc cagcaccata cttcacacct 530

<210> 4562
 <211> 569
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065d07a1

<400> 4562

ctcgaccaga cttcttctgg cgatgttttc catatggaaa ggatgtttat gataaatggg 60
gagatgtcat ttgtcatggg gacaaaaagg tcataaagga aggatacaag agtttcccaa 120
gtgggtcata cttcaagggt cattttctgg tctgggtttt ttatcattgt acttatctgg 180
aaaaataaaa gcatttgatc gcaaagggtca tggtgcaaaa ctttgcattg tttttctacc 240
actacttggt gcacacttg ttggcatttc tggagttgat gactactggc accactggca 300
agacgtgttt gcgggagggtc ttttagggct tacagtggct acattttgct atttgcagtt 360
ttttccttct ccttatcatt ctgaaggctg gggtccttat gcgtatttta ggatgttga 420
agaatctcgt ggtatgacct aagtnnctag tggtcaaaat tctggccaag cgcagtttagc 480
agaggctcan gctgagagcc aagaggaaac aggtctcacg ggtgtatggg gttaaactta 540
tacgggatca tcatgcagca ttgatgact 569

<210> 4563
<211> 499
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065d07d1

<400> 4563
gaatgaacgg caatcttctc aagagatttc gtattttctt atgtcaacat attcacaaaa 60
tattgaaata acaaagggtta attgtcccaa acctgactct tacaacaac tacgcttcaa 120
ggttttcaga gacactagtg actgaataga aacaactatt caacaaaatg tgttagtttt 180
aaatactggt taaaatccta ggctacgaac taacatctga tttacatttt acagagagca 240
agatcatgaa atgtacagac tttatcccct cccagattca cagtcattca atgctgcatg 300
atgatcccg gataaagtta accccataca cccgtggaga ccttgttcct cttggctctc 360
agcctgagcc tctgctaact gcgcttgacc agaattttga aactaggaa cttgngtcat 420
accacgagat tcttccaaca tcctaaaata cgcataggga cccagcctt cagaatgata 480
aggaggaggg aaaaactgc 499

<210> 4564
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065d08a1

<400> 4564

cagtgcaga gtaaaggagg cataccgatg actatggcga tgacggcgtc gcagttgcgg 60
tgcggttggg ggtggaggcc aacgccgaat cagcagcagc aacgacgtcg tatggttccg 120
ggtggtgtgt tccatcgcta tagagaacgc gaagaacaaa gagagagcga aactgaagaa 180
gctcttcgat gaagcgtacg agaggtgccg cactgctccc accgaaggcg tttccttcac 240
tctccaacaa ttcaccgacg ctctcgacaa gtacgacttc aacgccgaaa tgggcaccaa 300
ggttaagggc actgtttttg ccacggataa caatggagct tatgttgaca ttactgctaa 360
gtccacggcc tacttgccctc ttcatgaggc ttgcatccac agaattaaga atgtggaaga 420
agcatgcata attcntggcg tgagagagga atttatgatc attgatgaga atcagcggat 480
g 481

<210> 4565
<211> 511
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065d08d1

<400> 4565

aaatctggtt ttgaactggt ttcactattg tcaatctgac taaagataac agggacaacc 60
tctcacaata atttgacag aaaataaaga gttatacaat tgcctttact acaaaactga 120
gttgctaaaa agaaccgcta cattagttca tctttctaca acaatatttg gagtaagggtg 180
taaaaagaaa aaatagataa aagaaagaaa aaaaaggggg ggagggggagg aaaagaggac 240
tcagttctca attctctcaa tcacgaatct tcagctgggg gtacctcact cagatccact 300
ccctctggag gcaagtctga agttagtggc cctaagattc cttcaccgct gagagttaat 360
ccactctctg gctggaatct aagcatatca gcacgagcca tagcttctgc ttgagcaatt 420
ctctgtctga atgtctgagc catctcctcc gccttctcaa agacaagctt tggattgcga 480
aatcatgtca caggtgtggg ttccaacttt t 511

<210> 4566

<211> 593
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065d09a1

<400> 4566

ccacattcaa atccaaatgg ccctttacat tacactaata attggcctcc tagtaaacac 60
cctagtactc tataaatagc atttgcacgc accttagtct tcacaaaaat actcctcttg 120
gccatcttgt ggtggggggc ctttttttaa gctatttcct tctcttaaca caattgggtg 180
tgccaattgc catagtcacc aaccaattaa caaaggata tatatcatca tatcatcacc 240
aaatgaaaaa tattgggttg ttttttcttg tgggtggggc tacttttgtg gtggcagcca 300
cagctggtag cttttaccaa gactttgaaa taacgtgggg gtggggagcg tgccaaaatc 360
tatgagaatg gaaaccttct cacactctcc cttgacagag cctctggctc tggctttcgt 420
tccaaaaaag agtacttgtt cggaataatt gacatgcagc tcaagcttgt gcctggtaac 480
tctgctggaa cagtaactgc ctattattta tcttctctgg ggcctactca tgacgaaata 540
gactntgagt ttttgggtta cttgagtggg gatcctacac tcttcacacg aac 593

<210> 4567
<211> 564
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065d09d1

<400> 4567

gaatataatt ttgcacgcta taattatctt tcgccacaaa caatggagta gtgctcaaca 60
aagcacaaac caacaataat aacagtttta gttgcattaa tttacacaag aaagtaaatt 120
aacgtaatag gcaacacatg tgtgtcacgt tcatgaggat cattttataa tgatatgcaa 180
cattgaatta aatattctca tgcaatggag cattctggag gaaggccttg agggaaacgt 240
ctgatatcag tgcaataatt gtaaatcatg taattctttt gcaccaaacg gatctttgcc 300
tgccccgtgg cgtccagtga ttggccagtg gaggaagaag tttgggaatt gaagtttctg 360
tatgaggctg tgaatggggc cttgctccaa tccgttttca caagcccacc cttgtgggcc 420
caatccccag cgttccaaag actagagtat attctcatgg gttggctctt tgggaatgga 480

acccttttgc tctccaaatt cttgaactcc cttattgggg tcccgtccac agagaatatg 540
atgcttgcag gattccattg gacg 564

<210> 4568
<211> 538
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065d10a1

<400> 4568

ccacattcaa atccaaatgg cccctttacat ttcactaata attggcctcc tagtaaacac 60
cctagtactc tataaatagc atttgcattg accttagtct tcacccaaat actcctcttg 120
gcatcttggg gtgggggtcct ttttttaagc tatttccttc tcttaacaca attggttgtg 180
ccaattgcca tagtcaccaa ccaattaaca aaggatatata tatcatcata tcatcaccaa 240
atgaaaaata ttgggttgtt ttttcttgtg gtgggtggcta cttttgtggt ggcagccaca 300
gctggtagct tttaccaaga ctttgaaata acgtgggggtg gtgagcgtgc caaaatctat 360
gagaatggan accttctcac actctccttg acagaggctt ggctctggct ttcgttccaa 420
aaagagtact tgctcgaaa aattgacatg cagctcaagc ttgtgcctgg taactctgct 480
ggaacagtaa ctgcctatta tttatcttct ctggggccta ctcatgacga aatagact 538

<210> 4569
<211> 545
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065d10d1

<400> 4569

gaatataatt ttgcacgcta taattatctt tcgccacaaa caatggagta gtgctcaaca 60
aagcacaac caacaataat aacagtttta gttgcattaa tttacacaag aaagtaaatt 120
aacgtaatag gcaacacatg tgtgtcacgt tcatgaggat cttttataa tgatatgcaa 180
cattgaatta aatattctca tgcaatggag cattctggag gaaggccttg agggaaacgt 240
ctgatatcag tgcaataatt gtaaatcatg taattctttt gcaccaacg gatctttgcc 300

tgccccgtgg cgtccagtga ttggccagtg gaagaaagaa gtttggaat tgaagtttct 360
 gtatgaggct gtgaatgggg ccttgctcca atccgttttc acaagcccac nccttggtggc 420
 ccaatcttna gcgttccaaa gactagagta tattctcatg ggttggtctt ttgggaatgg 480
 aacccttttt gtctccaaat tcttgaactc ccttattgga gtcccgctcca cagagaatat 540
 gatgc 545

<210> 4570
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065d11a1

<400> 4570

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 agaagatgcc gatcagaaac atcgccgctg gaaggcctga agaggcgact caccgccgaca 120
 cgggtgaaggc ggctttgggt gagttcatct caaccttcac ctctgtgttc gccgggtcag 180
 gctccggcat cgcctacaac aagctcacgc acaacggcgc tgccaccctt gccggcctca 240
 tctccgcctc catcgcccat gcattcgccc tcttcgtcgc cgtctccgtc ggcgccaaca 300
 tctccggcgg ccacgtcaac cccgccgtca cttcggcgc ctctgtcggc ggcaacatca 360
 ctttctccg cggcacgtc tacgtcatcg cccagctcct cggtccatc gtcgcctccc 420
 tctctctggn ctctgtcacc gccttcactg ttccagcatt cggactctcc gntggagttg 480
 gagttggcaa cgccttggtg tggggatcgt gatgaccttc gtctggtgta cacggtctac 540
 gcactgccat tgaccccaga agggatattg ggaa 574

<210> 4571
 <211> 548
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065d11d1

<400> 4571

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aattaggaag aaaacacaag gaaggaaaac catacacaga agaagattcc agagaaattc 120
aataatacac aatttttttt ttttttattt tcatttcccc ccctctagta gtcagtgggtg 180
ggaagctgct cgtgggtgtg gctgataaag acaacctcgt aaacaaggcc agcgattcca 240
ccaccgatga gaggcccggc ccagtagatc caggtgggtg gtccagggtcc agctcacgac 300
agcaggccca aatgtcacag cgggggttcat ggccgctcca gagaaggccc cacccaacaa 360
aatgttagcg ccgacaatga aaccaatggc gatgggagca ataattccca aattaccctt 420
cttgggggtca tgggcagttg cgttagccgt gtacaccaga ccgaagggtca tcacgatctc 480
caacaccaag gcgttgccaa ctccaactcc agcggagagt ccgaatgctg gacagtggag 540
gcggtgac 548

<210> 4572
<211> 518
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065d12a1
<400> 4572

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aatggccact agaggcctca aaatttgctt ggccgtgtcc tctcttttct tgatcattct 120
tgccatcggt attgtgacct taattttgac catctttaa cccaagaacc cagatatatt 180
tctccacca gttgacctag aaaactttca attgctttca cctaatacaa ctagtgcacc 240
cttaggcata gtgatcacia ttgtgaacc taattatgga aacttcaagt acgtgaattc 300
cagtggctat cttaaatac gcgacaccat tatagccgaa gttccattgg ggataagatc 360
attccctgct cgtagcacta ccaatgtgag cactactgtg ggtattatga ccgataaatt 420
gatacaagat ccaaagtttt tgtcagatat tgaagggtgn ngtgttcaat ttgacagcag 480
aggccacact ttctgggaaa gtgacatga tcaagatt 518

<210> 4573
<211> 434
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220065d12d1

<400> 4573

aaaaagaaa ggagagagta attatttaaa ggcaaaggaa aacatatttt ctcccccaac 60
ccccaccaag agcatattag tttcaacatg tgtaaaaatt cttttttttt gcaattaaca 120
tgcattcaca atttgatttt ggacatgcag gtggaactag catccacagc aattattttg 180
aaagagaccc cacaagagat ataaattttg gccttaagcc ttaaaatctt gatcatggtc 240
actttcccag gaagagtggc ctctgctgtc aaattgaaca cccaccttc aatatctgac 300
aaaaactttg gatcttgtgt caatttatcg gtcataatac ccacagtagg gtcacattg 360
gtagggctac aagcaggga tgatcttatc cccaatggaa cttccgctta atgggggtcac 420
gatatttaag atag 434

<210> 4574

<211> 495

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220065e01a1

<400> 4574

gggagatgaa ttccctccaa agagcaagct agatcccaca gtgtatggtg atcaaactag 60
tacaataacc aaagaacact tagagatcaa ctttgggtgga ctctctgtgg aacaggcact 120
gagtggtaac agattgttca tattagatca ccatgatgca ttcacgcac atctgaggaa 180
gatcaatgac cttcccactg caaagtctta tgccacaagg accatccttt tcttgaaaga 240
tgatggcacc ttaaagccat tggccatcga attaagtttg ccacatccta ggggagatga 300
gtttggtgcc gttagtagag tcgtcttgcc cgcagaccaa ggtgctgaaa gtacaatttg 360
gctaattgcc aaggcatatg ttgttgtaaa tgactcctgc tatcatcaac tcatgagcca 420
ctgggttaaat actcatgctg tggatgaacc atttgcatag caacaacaag catttttagtg 480
tgctcaccct attat 495

<210> 4575

<211> 374

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220065e01d1

<400> 4575

gataggagca caatactata cataaaaaact gacacaacac cctattagat atgaaaaaact 60
agatagcatc caattacaaa acttaagcat acataagaaa attatgcaca cataagtttg 120
cacgtttatt tgtcaatgag aggtacgttg gaaggaaaga aaaccacaca ccacacacca 180
cacactttca ttagatagag atgctgttg gaattcctct gaaagtaagg ccttccccac 240
tggttaggaag aagcacagt tagggcattt gcgccgtcc attacggttc ctaaggcttg 300
aattcttggc cctccctgag attttggcct caatttcctt cagcttggtt ccaaacttct 360
taaaggcttg aatt 374

<210> 4576

<211> 407

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220065e02d1

<400> 4576

gattggagca catttctata cataaaaaact tgacacaaca tccctattag atatgaaaaa 60
ctagatagca tccaattaca aaactttagg catacataaa aaaattatgc acacataagt 120
ttgcacgttt atttgtcaat gagaggtacg ttggaaggaa agaaaaccac acaccacaca 180
ccacacactt ttattagata gagatgctgg ggggaattcc tctgaaagta aggccttccc 240
cactggtagg aaaaagcaca gtgtagggca tttgcgccgg cccattacgg gtcctaaggc 300
ttgaattctt ggtcctcctt gagaatttgg cctcaatttc cttcagcttg tttccaaact 360
tcttaaaggc ttgaattgcc tttgtgtcat cagcccaatt gggatgg 407

<210> 4577

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220065e03d1

<400> 4577

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ttaataactca aataggagta tcagcggcac gagcctctcc ctagtctcat tatgggaaat 120
 gcactcaaag gaacttcata tccatgcttg aacatttgtc ccaatgtttt taaaaccatg 180
 gaaatctggc cacggctcat gtaagctttg tacattatcc ataatgtttt ctttgagcat 240
 ttaagcttga cattttccat ctcttcaagg acattatgca tttcgagtaa ggtcatctgt 300
 gaccataca tgactagctt acaatgatat aaggatcggc agatactcca cccagagatt 360
 tcngcacgtc tcacaaaatt ttctagcttt tctactgcat tacatcgatn ataagttgca 420
 atnatgcgtc taaaataccc tnggttgat agaagtccca tgctcaaag cctcattata 480
 gcattctcca ttttcgctaa ccaggcttcc ttggcata 518

<210> 4578
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065e04d1
 <400> 4578

aagaaaaaac agaaacgaat tatttttttt cagcagttcc cataagcgtt ttggtcgttc 60
 ctttgtcagc aaattgaaaa aacaagaaag ccctgttcaa taaccaaccc aaattaaata 120
 actggctttg ggggaacaac ctgggggttct aggggggaaa accccccccc ttccttaggg 180
 gtttttacgg ggctttccac gaccttttcc tttttcttta taaaaccctg gttaaactta 240
 tcataatggg ggaggtcagt agccttgaac gggcggtcgc caaaacttg aaacaaggcg 300
 gcctggggaa gtactttttt ttcaagcagc aactctgcaa ttggaggaac ctgctccttg 360
 gggtcctcga taagctga 378

<210> 4579
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065e05d1
 <400> 4579

ctctgattat ttctttgatt gtgcgagatc ttttaaccata atctgcccgg gggcaacact 60
 ccttgagggtg tgcacaaag cccacataaa gagagattca aaaataaaaa atatatttaa 120

aattaacaga aagaaaaggc actatatgac agaatcgtga tgcaattcgg agaaagacct 180
acattccttg caaatgaaga gccatgtgta atattatatt ttcaatcgac ttccctagttt 240
acagggtcat ttagatacac tcaacctttt ttgctagtac attatatgaa cgcatgacca 300
gtatacagct gcattcatct tcaaagagta tccccacaat tgccctccaga gcattttaca 360
tgtgttgatg tatatagatc gtgactgctg ctttgaaaaa gtaaagcttc aaagcagaaa 420
aaaactccct cgggtggattt atatatgatt tc 452

<210> 4580
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065e06a1

<400> 4580

gcaaaaatag tgtgccacaa acaataacaa aatcaatatg aagttcacta taatcacaa 60
atTTTTTtct ttatttctag tcgacttttg ttttgacaa caaggggatc ttgacataat 120
aagatttgga ggaaaaaccg aattcagata taagccaggc tttcttaagt gcctggactc 180
aagcatgtgc atcaacaact gctgtcaaaa ttgtgattcc agctggcaca tatcaaattg 240
gtgcagttga tgtaaaaggc ccttgcaagg ctctattga ggttcaagtt gatggaacaa 300
ttcaagcacc taaaaacgta gttaacctta agggggcaga ccaatggta aaggttcaac 360
atgttaactc tttcacctg tcagggaaag gagtttttga tggtaaggt ccaactgctt 420
ggaaacaaaa tgattgtaca acaacaaga actgccagat gctttgcatg aatttcggtt 480
ntaatttctt caataattca atgggtccgtg accttacttc caaggatagc aaaaactttc 540
atgtgaatgt tgtgggggtg cacaatatga catttg 576

<210> 4581
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065e06d1

<400> 4581

cttatatcat tccatgacac tttctaaaat ttaaacttgg gtatgcatat ttgggacata 60
 ttacaagctc cttaataata taaataaaga agacgtcctt tgttattgaa tagttgcgtt 120
 gaagtattta ttacaaggg aatacaatta ctagctagac atctcctctt ttaatgggga 180
 tggcttgcta actcaagaaa ggaaaaaacc ataagaacat tgttaaaaaa atgggcatta 240
 ttgtagttgc tcattctagg ctgcacaagt aggagctttt cctgttatta cgggcttgac 300
 gttagcacat ttagctgttg ttgcagctcc attgaatggg gagatcaaca tcagtcacat 360
 ctacaccctc acatggtgca acactactac aaataaaaat cactccttct ttagttcctg 420
 aagtgccctt aatgtttttg aaggaaacct tgcttatctt gatttttgac ggattctttt 480
 tggagcactg gttccatgga caatactctt ggtctatgat ncacagggtt cgaacattt 540
 tccatggnta tatcttcaaa atgcata 567

<210> 4582
 <211> 486
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065e07a1

 <400> 4582

ggaagaacca ccactacctt atccatttcc actcctcacc aagccacacc atggcctcaa 60
 ccaacgcctt ctcttcagct tccattctac gctctcccaa ccgccagtct ctgaccagaa 120
 gagcgaacca caacggaaag agtaaattac cgtcaaccga atagccgttt ctccgtcaaa 180
 gcctccgcca aagagattgc ctttgaccag cattcccgtt ctgctatgca ggccggcatt 240
 gacaagctcg ccgacgccgt cgggctcact cttgggcccc gggggaggaa tggtgtgttg 300
 gatgagtttg gaaagtctaa agtggataac gatgggtgtca ccattgctcg cgccatcgag 360
 nctncagatt ctatggaaat gccggtgcag ctcttattag agagggtgct agtaagacta 420
 acgactctgc cggatgatggg acgaccacgg cttcggttct tgctcgcgag ataaataagc 480
 tggggc 486

<210> 4583
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065e07d1

<400> 4583

gaagaaaaat atcagatgac taccttattt caatatcatt aaacatacca tgactagaat 60
ccaatattat aacctctttt ctctcatcaa gccgaacaga tctaaaactg ttacaaaata 120
catttttttt tattgaacag aattctaaca cttacgtctt ttcaattttc tgcacaaaac 180
tgttctttgc cgtagcccta ataacctaaa aattaaacgg taaggccttg tggggcacca 240
gctacaggtg ccttgggctt aggtttttcc accacaatgg cctgtgtggt caacaccatt 300
ccagcaactg aagcagcatt ctgcaatgca caccttgta ccttggcagg gtcgataact 360
ccagcctcca ctaaattctc atacctgtct accatagcat ttgaaccgac ctncattca 420
ccac 424

<210> 4584
<211> 596
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065e08a1

<400> 4584

attaatatca ccacactttg tccatattct cattctctc actcccatca tcttttccaa 60
tggcctccaa cggcgacgcc gttcatcccc acccttccaa aaagatcaaa ctcttcagca 120
atttccatta actcaactaa ttctcgttt atcacccatg ccgagatcga atcggaattc 180
tcccaccacc accccacggt ggcgcgcctc aacaacggcg ccttcgggtg ctgcccggct 240
tccgtgatcg ccgtgcagcg cgagtggcag atgaagaacc tccggcaacc ggaccacttc 300
tacttcaacg acctcaagaa gggactcctt cactcccga ccatcatcaa gaacctcgtc 360
aacgccgaac acgtggacga gatctcctc gtcgacaacg ccttcaccgn caccgncatc 420
gtnccttcagc aagccgctg ggccttcag gaagcaaat tccagaaagg cgacgtggtc 480
ctcgtgctcc actaacgct acgcgccgtc aagaaagcca tcgaggctac gtggtgcgcg 540
cccgagcacc cgtatcgaag tnccttcc ctttcccgtc accttcaacg acgacg 596

<210> 4585
 <211> 311
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220065e08d1

<400> 4585

cccacccaaa tcctgggata tttaaacaag gaaattttca acaaaccggg caaaaaaggg 60
 caatcagaaa agggcaaact aaacatttgc aaattgtctc ccacatttaa aagggccaaa 120
 tttgtttttg gggggttaat taaaactaaa agccgagctt gggctcccc aatttcaagc 180
 cgaaaaaaaa gccaggttaa cccctttttg cccaagtga ttaaccgcat tcctgaactt 240
 ataaaagtcc taaaccttgg tgtaaacctg acgagaaatt cgggcatacc caataacaga 300
 gccattttcc c 311

<210> 4586
 <211> 595
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065e09a1

<400> 4586

attttcaatt ccaactctct ctcatatgca attctccatc caacaaaagt ttctcatcat 60
 ttctgtttcc cataagcaat taattaaaat actgaatttg gtataatttc tttctcaa 120
 ataatttagt tntacaatta ttttaatttc ttttccttg gattgtagcc ggggtttctt 180
 gttgtgagag aaaaaccttt attctctgtt ttgggaacat ctggggtctc aatttagtgg 240
 aagttaaatt ttgaaacttt ggacgaagat ggcgaattgg gtccaaaaga agatcactga 300
 tcccccttct tccattatcc gaagaggagc tgaaccaaac cacttggtt tctctgctgc 360
 tcttggtgtt acattgggac tatttctata tgtggtatgt tgtaattaac ccacctggat 420
 ttatattgtc atttatgttg gatttgttta ttatacttgc cacttgacac tcanaatcat 480
 gcttgtaact aagatcttat tgcttgacc gatggtgatt gaatangata agcacttaca 540
 gattaaatga tttnctgctt attaaaatgt acatgtgtca catagcggag tgaga 595

<210> 4587

<211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065e09d1

<400> 4587

gtgatgcatt tgctagggtg aatcagttta tacttaattt aaatatgcag ttgcttcaca 60
 atcttgaaat cagattcagt tttgggatta tgttagtcaa atctgcattt tccatgagtc 120
 gcatctctag agttaatgga aagacatagt tttggaaact agagagagag agagactaaa 180
 cttatgctag atggctacca attctgaact gtggttatct agaggttgtg aggaaagact 240
 gattaattta aaattgattg ttcaaacctc atggcaaaga gatgaatgat aatagagagc 300
 caactgaaat cctatcagtc attaacctgg atgaacagct acttaccttt tctgatgaaa 360
 accactttaa aatattctga caaagaaaat cagtacttta agcaacaacc aaatttcatt 420
 tttttcggaa aggccaaaaa tttcaactta tcaacatgtt tatcattagg aattaattgt 480
 tccccaaaat ccccttttac catgttaaca attattatat attatgat 528

<210> 4588
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065e10a1

<400> 4588

ttgtgtttca gtattgggtg tttttttttc ttttatgtca gtttgaactt tgaaggttcc 60
 gtgacagatg ttgttacttg ttattgtttg ataaggattt caaaattggg tggttttcga 120
 ttgaactggg atgtccaagc cacctgttag gcatagcgga agaggaaggt caaagcaatg 180
 tcactttggt gggtttcttc tcagccacca tggaaagtgt gtgcctgaat agctcaaaac 240
 tgaaagagcg caactacatg gggttatctg attgttcac tgtggacagc tccgcgccgt 300
 ctttctcaga tgagactaag agcaatctga acctcaaggc tactgagctc agactggggc 360
 ttccgggggc gcaatctccc gaacgagatt caaatctttg cttgagaagt tcgattcagt 420
 ttgatgaaaa gccactgttt tctttgcac ctgcaactga tgaacnacca ttctcatcaa 480
 agcctgctgt tttgggaaac aaangagggt tctcagatgt catgagtgga ttcgccgagg 540

agaaattg

548

<210> 4589
<211> 586
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065e10d1

<400> 4589

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aacatagaag agatgatcca atttacaac tacaaatcct tcaccacaac aggaacatga 120
gagcacataa aaaatataag aacctccac agacagggtt ttgggggttt ataagttgtg 180
acaatcatga aaaaagctta ctgaatataa acatcatgac aacagaacac accgatagta 240
aataatatca tgatcaacaa ggcagcttta gtaccaaatt ctatccagtc caaacatgcc 300
ttaagttgtg cttccaagcc attatggccc ttgtgttgct cctcacaca gccaagaaaa 360
cattttaacc cccaagcagt tagatggata gaagggtgtg atgagatgct taattctgcc 420
tagttcctgc tcttactttt ttcaacagct cttggtgcta gaccaatggc ttcagagctc 480
ttcataatcc ttagcctctt gcacgtctca gtaaaccatct cccagggaac atcacccact 540
agcatccagt ctccatcttt atcctcgtaa gtagaacata ttctga 586

<210> 4590
<211> 508
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065e11a1

<400> 4590

agaaaaccta gtgagagtaa gactcattg atcagcaaca atggcagcct actcaagcca 60
tgctttgaaa accatccctt tttcttcctt tgtgaagcct gtcagtacca aaccaacatc 120
atttcttcac accttcacct accagacctt tcttaccctt cacctcacca aaccactctc 180
tcacaaaaaa tctcaagctg aactccactt tgccacactt ttgcttgtct tcagttccca 240
agaaatcttt cacttgtaga agccaggctg agcctgttga ctcagaaaaa gtccaagaac 300
tgagtgtgta tgagatcaac gacgtgacc gtggaagccc cgtttatctt cgattgagct 360

ataaaagtgt caattcgctt ggtgatttag tcccctttag caacaagttg tacactggag 420
 atttgcaaaa ggcgattggg ataacatctg gtatctgtat tttgatccaa aacatagctg 480
 aaaagaaggc gacaggtatg aagcaatc 508

<210> 4591
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065e11d1
 <400> 4591

ggcaaacata attatacttc ctttccttat tcattatatt tgcttaaaca ccactaactg 60
 aataatgtca agcttttctg taaatagaaa ctccaccact acaaaaccca tcatagtccc 120
 cacttgttat tattattcag taacttaaata catactacta caaaggccaa agcaaataca 180
 aaaaaagttg atgaattagt cggatgaagc agcaatggta gcattgggct caagggcctt 240
 agcagcaggg gaaggttcaa cagatggaat tggctcaaca gtcttgacaa gaagctcctg 300
 aggcaaattc ttgataccct ttagaaaaat gtgtacaaaa tcttgaaagg atacacaatc 360
 tgacgcagct tcacttgacc tttaacaccc tcaaatatgc cagaccaccc agtcacagcc 420
 aatat 425

<210> 4592
 <211> 514
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065e12a1
 <400> 4592

caaaccgca atttcacttc cctcttcca agagccaccg gatcctgcaa ttcctctctc 60
 tattaggggtg gtgcagcagt gatgggcaaa ttccagcttc gtctatattg gaggggtttt 120
 aggcagaggg agtagattat tggaataagg gagacacatg gtgctttgat agcttttgcg 180
 aatttgtttt atctttgact gcgttctgaa aatggaaaat cctgacgttg aaaagtctga 240
 agaaaccaat agacaaattg acagtaacac aaaatctaata tctaaacagc agagcgtaga 300

gaaagctaatt gaacaccctg attgggttacc tgatggctgg aacgtggaag tcagaacccg 360
 taaaagtgggt gtacacatgg ngatctggat atnaagtgtt acattgagcc attgaaagga 420
 tacaaattct tctccaaccg gaggtattac gatattctga aactgtaaag gacaacagtt 480
 gcacttccaa gaggggaaga aatgcagtaa catg 514

<210> 4593
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065e12d1
 <400> 4593

gaacgtgcct gggattttct gtccctgctt cctgcaacag tgtcaagcaa attgttttca 60
 ctgcctccgc ttcttctgtt aacattgtca accaaagttt tttgaatata agtttcaggg 120
 actgtagtgg tgccttttcc tgtagcattg tcaaccaaag attttggaat atcagtttca 180
 gggatggtag tggcgctttt tcccgtaca ttgtcaacca aagtttttgg tatatcagtt 240
 tcagctggtg gtaacacacc agtgagggtt ttgattgcat attccaaact tgggtcagac 300
 caggagtagt gaaatgcaaa ggacagctga gattctgatt tctcatcctc catttcttca 360
 ttttcacgtt tcccagctg aggttctgat ttttccctt tatttgctga ctttccattt 420
 gttggtgctt gatctgcaag cactgtaact ggccacact cactttgctg caattntgct 480
 ttggagtcca ttgactcatg ttcaattgca gctaata 517

<210> 4594
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065f01a1
 <400> 4594

attaaactca ggaacgtgtg ctgagcgtga aaaataagtt acattaggcc tatgaaatag 60
 taaatagtaa gtagtaataa aatacatatt gggctcttaga gttctctagt aaaaatctaa 120
 agtctaaaac ctatttcata aaggaaaccc tcatgcttta tccattcctc ttttctttc 180
 ttctagtcac ctaatccctt ctttcatctg cattagtcct tgaagtgtaa aacctttgat 240

tataagagag ctaaattctcc attgttagga gtttgtaga ccaattctta taatgtaact 300
atgtctatta tctatttaac gtatctaagg gtctattaaa a 341

<210> 4595
<211> 316
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f01d1

<400> 4595

aaaaggaaac caaaaaccgg aaaaaggaaa aaagcccagg gcccctttaa agaagggggc 60
aaacaaaccc caaaaagggg ggaattaccc ctcttaaaaa aaggggggta cccctttggg 120
ggccaaggcc caggaaaggg ggggttaggg ggctacaaaa aagaaaaggg ggggggggaa 180
aggccggggg ggctccttta ggaaaagggg ttaaaccttg aaattttccg ggggaacctt 240
aagaccccat gggggtttaa accctccctg ccagttcctt tttaaagggc ccagggggac 300
ttttttttca cggggg 316

<210> 4596
<211> 55
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065f02d1

<400> 4596

ggggnnnnnn nnaggagctg gcagtttcac actcagganc ncggtgcgga attat 55

<210> 4597
<211> 572
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f03d1

<400> 4597

gaagcacgct ctaaattggt agataggtaa atgatcaacg catatattca tacaaattca 60
aacataaggc agctttcaag agaagaaatt aaaaggtaac tggaacctg cgaggaatat 120

taattcccat aggttcataa atcaattcct ctagatttcc aatataaaat gggtacaatt 180
 gttatttttg agccatgagt ttgaacccta tcatcagacg ccactagcat ataatcgggt 240
 ccattccttc gctgtttcga cagcctcagc ctcattagat ttccaatgct tggcaatggt 300
 ctcagaaagt ggatcatctg ggtttggtgc acttaataga gcttgaatgc ttagtagaac 360
 aagtgcggat ctgaagggca ggactccact tatctttcag aatatcaaga caaatcctgc 420
 caagcttatt aatgtttgga tgatatattt ttgtagaaa cctaaccttt ggagcagcca 480
 ttggatattc ttctggcaaa atagttctaa ctgaaaactc ctcttcata gggcactggg 540
 ttggccccag gatcatcaca ttgaaatatt gc 572

<210> 4598
 <211> 491
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065f04d1
 <400> 4598

atgatcggtta ttatgtctgt gatacacaca attaaggcca taatatactt atgtgattta 60
 caacaacttc tagcttattt tatacatcat gccaacccaa ctaggagcaa ttttcatcat 120
 acaattacac ttatctttta tcatcattca tcaatactgg catcagcaat acgctctaaa 180
 ctctgaagca tgacaagggt gtagtcacca gggaccatat tgttatgcaa tttatgccac 240
 aattggataa gatgcacaag ttgcaacacc acacatgttc ttccccaatt ccattctgaa 300
 gtagccattt tcaccccagc tttctcccca tgaatttttt atgagccaat atgggacacc 360
 attttcaact ccatatccaa cagcaagaac ggcatgggtc acatcctggg aagtgtaca 420
 caagtgtcac tagtgaaaac tcctttctcg tagaaatggg aacccattca ccacctgaag 480
 gccacactaa c 491

<210> 4599
 <211> 173
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065f05d1
 <400> 4599

acactcaaca ataatcatta attcacaaaa caattaacac tctgaaaaaa tacatacata 60
 ttatgaaatt atcaaaatTT taaccattaa tttcctaate atcaattate atccccacagt 120
 ttatcacctt tgaaagtcta attaaaatga taattcattt gttacaactc tcg 173

<210> 4600
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065f06a1

<400> 4600

cttcttcttt cgttcttcat tgttcattca atttcttctc tcttcatctc accgaacaaa 60
 tcattcaatt gcaatcatct atggcgtctt tcgacccgag cgtagattct agtaattccg 120
 acccgttgag agaattcaat cacaagaagc gcagaaaaat cggagaccac gccgccgccg 180
 atcaaaattc ggctgccgcc tccccgtgga gatccgaaga ggagcagcgg atctactccc 240
 gccgcctcgt ggaggctctc cgccgcactg cgtcatcggc ggccaagcct agagccgccg 300
 gccaggctcg cgagaccgcc gaccgcgtcc tcgccgccac cgccagaggc cgaacacggt 360
 ggagccgcgc gattctcagc cgctggagga agctccgcac gcagcacaag aaggcgaaga 420
 agaaggaggc atcgtccatt aactgtttga agagaacgag gattggcaac ggagagagga 480
 ggaaccggtt accggctgtg c 501

<210> 4601
 <211> 406
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065f06d1

<400> 4601

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 catgaatctg aaaaccaata aaaacgattt aataattaaa aaataaaata agaaaaacac 120
 ctggcgcaat ataacctagg cgcggggggtc aactaaacgt gccgccggcg aaacttgccg 180
 gcgcggcgac ggcgaatatt tcggcgagag ccgtcatggc tcgcacttgc atttccaagg 240
 gggagatata gtccgtggct ttttccaaaa ggtttggaac cgaaaccttt cggcaaccgg 300

gaaccaaccg ggtgaggacg cgcgcttttt ttgtacagc cggtaaccgg ttctctctct 360
 ttctgttgcc aatcctcggt ctcttcaaac agttaatgga cgatgc 406

<210> 4602
 <211> 454
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065f07a1

<400> 4602

cctctacggc atatcctttc tccttcttcc tgtatcctct gacttaattt actacaaaca 60
 ggcaacaagg ctcaaggaat tagtattgtt tccatcatgg gaatttggtt gagcacccaa 120
 aattgaagct gggctgaatt caaagcatgt gagtgtcgat gcaaaagatc tcagcagtcc 180
 aagcagtaaa attacaaaag atctcagcaa tccaattagc aataaaatta cagaagatct 240
 cagcacacca attagcaata aaattacaga agatctcagc acaccaatta gcaataaaat 300
 tacagaagat ctcagcacac caattagcaa taaaattaca gaagatctca gcacaccaat 360
 tagtaaggtc tcagagatct tagtgccctc gacttctcag atgagggtga gatcttgcag 420
 tcatccaatc tgaagacttt agtttgacag aact 454

<210> 4603
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065f07d1

<400> 4603

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 aacctgaaat atatacatgc aatgtactaa gatatgtaaa acctattaga taacatgtgt 180
 gcatgatatg aacatgtttg agttcatgtg gaaacatgca gctttcaagg atgtgtattt 240
 gcaatgtcac gtgagagcgg ggaagcagaa gcagtggcaa ttctaccatg ggtaaaatga 300
 tcagcacttt ttctacgatt ttgtttcaca tgggggacct ggagctgctc caaatccgtg 360
 gcaacctcgt ccatggttgg tctcaacttt gattctattg caaggcatcg cagaaggagg 420

gtagctacct tacatgcctc atctaattca tattggcctt caagacgatt atccaacaca 480

<210> 4604
<211> 540
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065f08a1

<400> 4604

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ggattatcgt tgctccaaag agtcattccc aagttgatca aggctgctaa tgatactcag 120
aatatTTTTat cgcctttgat ggccccagaa acatttaaaa gggataagtt cttttggttt 180
tcagatgtgg aatttgctag ggagactttg gcaggtgtca acccatatag catccaattg 240
gttaaggaat ggcctttaac aagtaaaacta gacccgcaaa tctatgggcc acaggaatca 300
acaataacta gggaagtcac tgagccacaa attatcactt atggaacaat tgaagaggcc 360
cttaaagaaa agaagttgtt catgctggat taccatgatt tattcttacc atatgtaagc 420
aaagtgagaa aaattaaggg caccacatta tatgggatca cgaacattat tcttcctcac 480
tgatcaaggg atattaaagc cattagctat tgagctcact agaccaccta tggatggaaa 540

<210> 4605
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065f08d1

<400> 4605

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gggaaaaaca atTTTTTTTcc taaaagaaaa accagaaggg ggattttccg gggccaaaaa 180
aaaatcgggg gccaaaaaag ggaaaaaagg gaaaaaccct ggggcccttt tTTTTTTTTT 240
tttgggcccc ttggggggcc ctaacaaaaa aaaaaagggt gtttaattgg ggcctaataa 300
aaacccccaa ctttaaaaag aattggtttt gggaaccctt tttccaggga cccccggccc 360
cgaaaagggg ttcaaaaccc caaaggggat tttcccccc cccggggggg tcttaaaaaa 420

acaatttcca ttcccggggg tt

442

<210> 4606
<211> 476
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f09a1

<400> 4606

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tggaagttct aatggcaact ttgtgcttga gttggacttt gaaccattca atgcagcctt 120
tcctcggccc actcttaaca aggtcaattg gaaatggtgt gcagttcctc aaccgccacc 180
tttctgccaa actcttcac gacaaggaga gcttgcaccc acttttgga ttcctcaggc 240
tttacatcgt caaaggaaag actttgatgt tgaatgacag aattcaaaac ccagatgcac 300
tccaacatgt tctgaagaaa gctgaagagt ttttgggcac aaagcacttc tgaaactccc 360
tactcagaat ttgagcacia gttccaacat attggtttgc agagagggtg agggccacaa 420
ctcccagcgt gttcttgagt caattcaact tctcttggat cttcttgagg cccctg 476

<210> 4607
<211> 427
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f09d1

<400> 4607

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aatcaagatt caaatcatgc aaaagaaaaa agtaaaaagg cttttttttt tttccttttt 120
tttctctctc tgcctcttat cgaaagctta atcacaaaat taaaatcatc agggacatat 180
tatttataga actcaagtaa gacaaactcc aaatgaaaaa caaaaagccg gttcctccat 240
ttttttatcc aactcttcat cctcagttta ctcaacagca aggggcacag actcggccaa 300
tttgcggtac ttgagagcat agaacatctc gagatagcgg cggctctcac ggcggtcaag 360
gttagacaca tgcttcaga agccatagac accagtgaga gtgagaagcc tttgtgagta 420
aatttgc 427

<210> 4608
<211> 211
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f10a1

<400> 4608

tgccattaaa atctgtcttt gtttttccta tagttccaaa gagatttttg tgcaaagctg 60
aacttcatct tcgtgaattc taattatata atatatactc atttccaatc caatgccatt 120
ttatattctt ctaaaaaaaa aacacttggt aagaaaaaaaa aaaaaagaaa ggggcggccg 180
tgcacttttg aagctcgtct acccggaat t 211

<210> 4609
<211> 282
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f10d1

<400> 4609

cataaaaaaa aataaaatgg cattggatag gaaaagaggc aaacatagaa aagaagaatc 60
tacgaacaag aaacaaaacc ttgaccacaa aagggttcgg gaaatctctg gaaaaaaaaa 120
gaagaattcc acggacaaga agccggattt caaaaaaaag taccggggga acaaaggga 180
aaagaatttt aatgtggtgg cgaaataaaa ccactgggc ggataattac aacgggcgag 240
aaggggaaaa acctggcgat aaccaaccta acaaacatg cc 282

<210> 4610
<211> 571
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f11a1

<400> 4610

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tgatgattct cagcattctt ataaaaagct gaagacaata tctgatgatg tagttactgg 120
caaatagtga ttctagcaag aacataaatt ttggtgcatg tgatgaaagt atacatacaa 180

ttactagtgg acttttggac aaatctgtta aagataattc aaataaatta atagattctt 240
ctagcacttg ctgtagtgat gagcaggaca aaagtattgg ggatggacca aaagatccta 300
caaataagac agaatttaag aagttgtcca attcaatgga agggaaagt gatgggatgc 360
taagggggtt cagattggaa acctctggaa aaagaattat acttaagggg agtagaaatg 420
tttggcagaa acagttgcct catagcaagg aacttacttt ctggcctgaa gacttgtatg 480
gaaatatcta gttacatgca ttctggagga gtgtcatgcc ccatggatct aatgtgctcc 540
tagttcatca tgaagacagg gaaaattgat g 571

<210> 4611
<211> 540
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f11d1

<400> 4611

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aatcaaagat aatatttttt aagtttgatg cccaactaga ctatagaaat accaattctt 180
cagaatataa tgatgctggt tatataattt ttttttaaaa aaattgggtca taacctattg 240
gtataataca aaatcacacac ttatcaaaac agttggagcc atctggtata ttacatatgg 300
aaaactttat tttagcttta ccaatcctcc cctcacctcc aaaaagaaaa taacaaaaag 360
atgggtcaaga cacaagaatg taggataaag aagatggaaa cagaaaggct tgtaattctc 420
actgtgcact ctgcatcaaa ttttcccttg ttttccatga ttgaactagg agcaacaata 480
gatccatggg gcattgacac tcttcagaa tgcattgaac tagatatttc catacaagtc 540

<210> 4612
<211> 412
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f12a1

<400> 4612

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tcgagcatcc ttgatgtcca gggaaatcca tatttgtcct tttttctgcg tactttcatc 120
gaattattgc ttgtagctct ataccaactt cttatatatc ccatacctcca catctacgcc 180
tgaatcatcg tccaactatt agttcctctc tctgcggttca tategcaaca tgcttccctt 240
ttcaactctc tttcaaaccg cgtaaccac cgagtattgg tacaaccacc ccacaacaac 300
acttctagcg ttcttgetca tctcccttgt tacttgctat gcatgggtca agcccaaggc 360
ccaaaagctt gcaccggggc catcgggcct tcctttcttc gggaaccttc ta 412

<210> 4613
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065f12d1

<400> 4613

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tctttttgag aacaattcca aatttctctg atacctctaa cttttctcct tgggggtactg 180
tccaatcaaa taagtgtacg agtgtggcaa gaaaatgcaa aacogtcttc tcagccattg 240
ctattcctgc acaaatctct cttccagatc caaaggggaa atagttgaag tcattgccac 300
tgaaatccaa ttttgcactt aagaatcttg taggatcaaa ttcgagtgat ttcttccaaa 360
ttgaagggtc tctatgaata gccacacat tcacaaacac ccgagacccc tttgggattg 420
tgtaacctcc caaatagtgg tttcgctagg acaatgaggt actagagtgg a 471

<210> 4614
<211> 537
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065g01a1

<400> 4614

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catcatgggt aaggaaaaga ctcacatcaa cattgtcgtc attggacatg tcgactctgg 120
gaagtcaact accactggtc atttgatcta caagcttggg ggtattgaca agcgtgtgat 180

tgagagggttc gagaaggagg ctgctgagat gaacaagagg tcattcaagt atgcctgggt 240
 gcttgacaag ctcaaggctg agcgcgaaag aggaattacc attgatattg ctttgtggaa 300
 gtttgaaacc accaagtact actgcacagt catcgatgcc cccggacatc gtgactttat 360
 caagaacatg attactggta cctcccaggc tgattgtgct gtccttatca ttgactccac 420
 cactgggggt tttgaagctt ggatttctaa ggatggacag actcgtgagc atgctcttct 480
 tgctttaccc ttggtgtgaa cagatgatct gtgctgtaca agatgatgcc ctacccc 537

<210> 4615
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065g01d1

<400> 4615

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 cgatcaagaa cctagttttg aaagttacgg ctacatgaaa tcggcagaaa cttaaaaata 120
 taacttaaac aaaacaccta agactctgca aggataaaac tactataaag gagtaaccac 180
 gatgatgac acatgtgcta gcaaaattgc ccaaagcaa tcacttcttc ttggcagcgg 240
 ccttggtgac cttgggtccg gtgggggtctt tcttctcaac actcttgatg actccgacag 300
 ccacagtttg acgcatgtcc ctacagcaa aacgaccaag gggaggatac tcagagaaaag 360
 tttcaaccac catgggcttg gttggaatca tcttaaccat acctgcatca ccattcttca 420
 aaaatttggg ctctt 435

<210> 4616
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065g02d1

<400> 4616

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 ttaactttta tttaatgcac aaacataaca ggggcaggaa ggaaaaccac aaaattaaaa 180

cgaagatcat atagctgtta ataataacaa caacacatgc aacataaaaa ccacatgcag 240
 ttgtggtagt ggcattcttct tcagattgga aacgcctcaa tgatggaagg gagagcggtg 300
 atcttgatga atgttgtaac gcgcgaaacc gggttccttg aacagccact tccagttctc 360
 ttcggtcctc tctttgccac cggcggttggtg agcgagaagc atcatgtcga atgcgatgcc 420
 aacgtctgtg aagaagttcg ttgccttcgg gtcgaagaac gtgatccacg attatgactt 480
 ttctgtctt ctctggtatt gccttcctgc agttcttaag atcttgatgc agtgctcgtc 540
 gctccagtca tg 552

<210> 4617
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g03d1
 <400> 4617

gcaaagaaat atccatgaac tataattaca aacttcctag ggtattatit acacgccccca 60
 taggcataa atggctttat ttgaatttta tcttccata tcttacagtt taaaatactc 120
 actcaagaat ttggtcaact cccagacatt cacaacaata aataacttga ataaaaagaa 180
 catatacgaa cgaagttgtc gagcaggcag agacgagaat tcacaatttc acaccatctg 240
 gacccaaata ccgtggcttg gaacttcttg atggaccaca aacagcagat agaaacccgg 300
 tggcgcaaga acagcggaag ccggcgcggt aacttcacct cgtgcgttga ttctccaacc 360
 ccactaaatg gtgcggcttc agcaccaaca gcctctgatt atggaaacga gtggcgtggt 420
 aaatggcggc gccagcatgg taacagacac cgaatcccaa ccaaagtcgc gctcacctta 480
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<210> 4618
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g04d1
 <400> 4618

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ccagaacaaa taggaaaggg acaatcaatg agggtaactg acaaactag tcaacaaaag 120
 aaatgctgct gctatcagca actaatga aaaacaaaaa atcacatagc aacactgcaa 180
 agaacaggca atcgacatga gaactactat tatagatatg gaggaatgca aacttggcaa 240
 gaatgtggtt gctggcttgc tgctttttta ctaacatcat ccaaaactgc tgctactgga 300
 gacattatca ccgtagacc atcttttgaa ggcacccggg actaaatttc taccagccaa 360
 aaacccaaac ctctgatctt aacattgtca atcggttggt attattactt gaagaagctt 420
 cagcatcagc ctcagccaca gccacgggtg tttgggtaat ggttggtaga aactctacag 480
 tattatcccg agctccgcca atcccatcac ttgcaactcc atccaaagct ttaact 536

<210> 4619
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g05d1
 <400> 4619

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 atatgtatta ccacacacac atatataagt agttgaagca tatagataat tttcaatccg 120
 aaagaagctc tattttgatg cctctgattt taacacgccc tttcccatat ctcggaacca 180
 gcgtcaccct aacactgtca tcattctccg cttccaattc ttccaacaaa tccgtaagtc 240
 ccagcctcaa acaagtaatg atgtccttgt tttgtgcat atgtgaatga ggcacactca 300
 caaagcttcc tgcaaattct gtattatctg gtcgaatctg cttatcatct tcattcattga 360
 taaacacatc aaattttacag ggtgtgtttc tctcaaactc aatcccttca atcaccaaaa 420
 cctcttctc ct 432

<210> 4620
 <211> 596
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065g06a1
 <400> 4620

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gataatttga ctatcaattt ccatggtaat tgaatatctt ggttagtctt ctgactagt 120
 aatatgtggt cgcaggctct gcaccactat acgtgctatg tttccagtaa ctgtgcttaa 180
 gaacctaact tgttttgtgt ataaagacgc tcagagacca gaccttcctt tttttcattt 240
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 tattgggtat agccagatgt cagtctcgga agtgttgat aaattgaaga tggggctagg 360
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 acgctgctac cttgtgctat gttgtggctg ttgctgtgct gagatcctgt gaatgggact 480
 aaggttatan atgaacagtg aggagctgat acaatgatgg cagtgaaaga gatttgggtt 540
 gtggtatgga gttgcatggt atggctgctat gtgtacaata gatgaacaac atgatg 596

<210> 4621
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g06d1
 <400> 4621

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 agaaaggaaa aaaaaagggc cccccccctt ttaaaaccg ggggaaaaaa atgggggggg 120
 gggaaaaaaa aacaaaaacc ctaaaaaaa aattgcccc catcccccca ccaggggggg 180
 caacatttgg ggcaaaaaaa agcgcccttg gggataacaa gaaagaaacc ccaagtcttt 240
 ttacgggcaa aataggggaa ccccccccg ggggaaaaaa aaaacccag cccgaacagg 300
 agggacttat caaagaacag cgccccaaa tgcaaaggg 339

<210> 4622
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g07a1
 <400> 4622

caaatatgat ccagactcat ttactcttt aacatacttt tggaactttc catgggaaat 60
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cggcgaaccc tatttcacca ggttttcttc tgaatgatga atcaaagtga ggtaaccagg 180
 aagagacttt tttcacttgc cctaagatta tggatattta gaaggagtgg tagtatagag 240
 gagagaacat atcaatagtg cttccgcaat gaccacatca acattagtgg caacattctg 300
 ctagtggagg tgcacttcac atgggcaata tgagaatggg aatatgggtt gcatatggaa 360
 tcatagaaat aaatgggttt tttttttttt gggaaagaca tttgataagg atgaactaaa 420
 acaacaattc ctattcactg cttggctctg gttaaatagc caccacacaa attttgtata 480
 ctcttccta caatggtcga ttaacccttg gcagtgtta ccg 523

<210> 4623
 <211> 597
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g07d1
 <400> 4623

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 tctccatact tagtcgatag aaatcacaca acacaagaat atgaagtatt tctatcttca 180
 tgtgtttgcc aaccaataaa tgtggtagac aagtagcaat gcacaccctc cctttaaata 240
 tcaataccat caaacccaac cccccgtag cgtctctccg gtaagcactg ccaagggtta 300
 atcgaccatt gtaggaagga gtatacaaaa tttgtgtggt ggctatttaa ccaggaccaa 360
 gcagtgaata ggaattgttg ttttagttca tccttatcaa atgtctttcc caaaaaaaaa 420
 aaaaccatt tatttctatg attccatatg caaacatat taccattctc atattgccca 480
 tgtgaagtgc acctccacta gcagaatgtt gccactaatg ttgatgtggg cattgcggaa 540
 gcactattga tatgttctct cctctatact accactcctt ctaaatatcc ataactc 597

<210> 4624
 <211> 511
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g08a1
 <400> 4624

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 tgagttccat tcacctgct ctttgttttt gccggtgttg gttcagccat agcctatggt 180
 aagttgacat cagatgcagc acttgatcct gctgggttac tggcagttgc tatttgccac 240
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 tactggattg cacagcttct tggctccatc gtggcatggt ttcttctcaa ctatgtcaca 420
 ggaggcttgc caactccaat ccacagtgtg gcttctgggg ttggagctgt tgaaggagtt 480
 gtgaccgaga tcatcatcac attttgtttg g 511

<210> 4625
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220065g08d1
 <400> 4625

atatataaa agcacttctg cacaccacca acctcttgaa ttctcaccaa attaaacagt 60
 agtagcacac tttaaaata aattaagaga agaaaaaaaa agcatagaat ggagagagag 120
 aaaaaaaga gagatagaaa aagaaagaaa agcaagaact gcttttcttc cttttattat 180
 caagaaacat gaattacaaa ggccatgact tgaatcagat caaaattcac tggaaagagg 240
 tgcatggtca gagcgaatga agacattgcc gtagataagg ccagccaaac caccaccaat 300
 aagaggcca acccagtaga tccagttgtc atggaagtca ccactaacia ctgcaggccc 360
 aaaggagcgt gccgggttca tcgag 385

<210> 4626
 <211> 543
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065g09a1
 <400> 4626

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 tggttcatat tcgatgaacc aaagggcggg tgaagctgaa accttgctgc ctcgagcaga 180
 atcaagaatc aagtctttct ggtgggtgat gaaatccttt ttatggtgtg ttatctttgt 240
 gttccttgct tttattcttg agaaatgggg agtgtcactt ttttttgaaa aggttcttta 300
 cccaatcatg gaatgggaag ctactgcctt tggccgncca gttcttgctt tagtactagt 360
 tgccctctctg gctttattcc gcgtagttct taatcccttc tggcccctnc atgtggctgg 420
 ctgggatgat ttttggttat ggcctttgct tcgttatata atggttgga caaccattgn 480
 gatggtgctg ccatacttaa ttgggctact gttccgtgac cgaattcata atggtttaag 540
 aga 543

<210> 4627
 <211> 204
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g09d1
 <400> 4627

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 atatactgtc acgaaatttt tggcaaacta agctgttttag gcctttcaag ggggaagcttc 120
 tccatctcta cagaaacaga ggtaacttca tcattcaact ctgccatttt gagttcattt 180
 agagtccttt ttgcgtagac agtg 204

<210> 4628
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065g10a1
 <400> 4628

tttttgagga gttggtgagg gagttgtttc ctaaattggc caatcatctg gattatctgg 60
 gagtgcaggt ggcattgggtt actggaccat ggttcctgtc catttttgtg aacatgcttc 120
 cttgggaaaa gtgttcttcg agggggggga tgtgcttctt tttgaaggaa accgagtcac 180

gctctttaga actgcagttg ctttaatgga gctatatggt cctgcggttg taacaacaaa 240
 ggatgctgga gatgcagtta ctttacttca gtcgttggtt ggctccacat ttgatagcag 300
 tcagcttgta ctgacagctt gcatgggtta ccaaaatata aatgaaactc gtttgcagca 360
 gttgaggaaa taaacatcgc cagctgtaat agctttcatt gaagaaagat caaaagggc 419

<210> 4629
 <211> 518
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065g10d1

<400> 4629

actataaata aacgagagat gtattacagt tgacctcgac cgttcactta ctttccaatt 60
 actattattc tattacataa taaagaacaa acaattaatg aatatgaaat tatatgttca 120
 ccctaaacaa aaattacaga caaggaagaa gaaactaact tcttgctcgt caaattgtct 180
 tgagtaggat ataaagaaaa tctaggcact gacttctttt ctactctcat cctgtacttt 240
 aaggccattg acgtcttggt cactgatcgt attttgttcc tcaacgctgg gatttccctc 300
 agctggctct ntcattagtg gggttccctt tgtttcgatc tcgccatcca agtccaaatg 360
 gacgagaaag caaacttatt ctcttagcag ggatatccgg ctcttgattg tttctcgata 420
 ccggagaatc tgactgtgaa gatcgtggag attgtagcac tttaacttgg ccagattggg 480
 actgcaatgt agcctncagc atagattctg ccataact 518

<210> 4630
 <211> 513
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220065g11a1

<400> 4630

tgcacctgct ccgacacctt tggcacaacac gaccaatgag gattcccagt ttccagttga 60
 aaatggcaaa aggcatttgt ctgaagaaga aatgaagatc aagacaagga gagagattgc 120
 aggcccttgg ggtgcagctt ggtaagatga atattgctgc atgggcaagc aaagatgagc 180
 aggaaaagaa caaatcttct ccccgggaca tgagtgtgca agaacaggag agaattgaat 240

ttgaaaaacg tgcagctctg tgggaggaag ctgagaaatc taaacatact gcaagattta 300
agcgagagga aatcaaaatt caagcatggg aaagtcagca aaaggcaaaa ttagaagcag 360
aatgagaag aattgaggcc aaagttgagc aaatgagagc ccagacacat gcaaaaatgg 420
taaaaaagat tgctatggcg aggcaaagat cggaagaaaa acgtgcagca gctgaagcta 480
gaaaaaatcg agaagcagaa agaactgtgg ctc 513

<210> 4631
<211> 303
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065g11d1

<400> 4631

aaacaaaaaa aaaaaatttt tttttttttt ttttttaaaa aaaaaaacag gttgggggggt 60
ggaaaaaacc cccccgcaaa aaattttggg gcccccccg ggaggaaaaa aaaaaggggg 120
tgaaagaacc caaaaaaaaa aaccgccctt tttgggcccc ccttctccc ccggggaaaa 180
aaaaaagccc ctttgggggg ggggggcttt ttttttaaaa agggggggtg gggggttttt 240
tgcccccccc cccccacaaa tgttttgggg gagggggcct cccctggtg gggaaagttt 300
ttt 303

<210> 4632
<211> 393
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065g12a1

<400> 4632

atctccacct tctctttcac tgctccttgc tctttcttct gttaggtagc cgcaagatct 60
gcataccatg gcttacagga aattcgacaa ccctcactcc ggcgacgggg ccagtacagg 120
caaaaatctt gatcggaggg ggagccaaag acaccaccct agagacgttc gtgaagtact 180
ttgagaagta cggggagata acggactccg ttataatgaa agaccgtcac acgggtcggc 240
caaggggatt cggcttcatg acctacgcc atccctacgt cgttgaccat gtcatacagg 300
agaaccacgt cgtcaacggc cagccggtcg agattaagag gaccgttccc aaaggctctt 360

cgcaggctaa tgacttcgac accaagaaga ttt

393

<210> 4633
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065g12d1

<400> 4633

caagcaaatt tctagcaagt ttgacctaca ataatacaca ttaacacaac tccaccatgt 60
ttctaactaa atatcgaatc cagaatagcg acagtctaata gcaaacaatct gaatatcaca 120
ttaaagcaga atgtgcctat ctaaaatcca tataggctga taactgatgg gaagctctag 180
attgatgatg ctacagaaagc tctagactga tgatgtttct accttcggtt gtctaagcaa 240
tagataaaac agacatgcta gtggttcttc tgacttctag aaagtggcca cctgcagtaa 300
gtgccttggtg tctagaaaat gcttaaacct gcatacaaat tctactgcaa agcttagtaa 360
taaaactatc ttgcataagg atggtaacga ctactgccac catagcttcc cctactggga 420
tacattccac ctctgctcc tccataacca gcaccgggac ctgttctata accccaccag 480
cgcttggacc acataggttc cataagcccc accaccccg tccatatg 527

<210> 4634
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065h01a1

<400> 4634

gatgaacgct cccctcgcg cctcgctctc acagccgaag ccgttcaatt caactccggc 60
aactacactg tgtggcattt ccgacggttg ttacttgagt cgctaaaagt cgacttgaac 120
gatgaactgg agtttgtgga gcgtatggcc gctggaaatt ctaaaaatta tcagatgtgg 180
catcatagac gatgggttgc cgagaagtta ggtcctgaag ctagaacaaa tgagctcgag 240
ttcaccaaaa agatactgtc cgttgatgcc aaacattatc atgcatggtc tcatagacag 300
tggtgtcttc aaacactagg aggatgggaa gatgaactta attattgcac agaactactt 360
aaagaagaca tttttaacaa ttctgcttgg aatcagagat attttgtcat aacaaggtct 420

ccttttttgg tgggccctaa agctatgaga gagtctgaag tgctttacac cattgaagcc 480
attatagcct accctgaaaa tgaaagctcg tggagatatc tacgatgact ttata 535

<210> 4635
<211> 423
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065h01d1

<400> 4635

caacggaaaa aaaaacttaa atttcttatt ctgcatggct ttcaatcctt aactcaaatt 60
gccagtaatg gcatgacaaa aagataaatt tgcacaaaca gatacatgac aacataaaaa 120
ataataataa ataaacatcc agtttcaata aactaggtta cacataacac agagttgccc 180
tttaattact ttggttacta agctgataga ggaagtctgc tcttgcgcca aatccaatag 240
ttggttctaa ttggatcaac ttgttttagg atagaacaaa tatttcgggc tatatttaaa 300
ttttgttggt cccctttctc atcatcatct aaatcttggt tatccatatc tgcgggtcttt 360
aaggcgtcaa tggcatctct aatgtcttca tttggttgat aaccaaagca tataagatct 420
aaa 423

<210> 4636
<211> 229
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065h02d1

<400> 4636

aaggaccaca catttccttg gatttccac ttggttttgg caagcctccc tcccaaaaat 60
tcccttcctc aaaaaacacc gggggttaaa cagtttcctg atcctatacg gggaaaattt 120
tccccgcccc aaaggaaaaa ggtcacaaca aaaattttta taaaaacccc ccttaggcca 180
gtttcacatt acaaccccaa tcgggccttt ttttgattt aagggggggg 229

<210> 4637
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065h03d1

<400> 4637

gggaaccccc tatgcaaaaa acttccaag tttttcttag caaaaaaaaa aaccttggg 60
gcaaaaaactc cccaccctt ttatgggaaa ttttcatggg ataatttatg aaacaggctt 120
gtacttaaac ccccgatctt aaaacacaaa ttttcgtccc aacaacaaaa ttttttataa 180
cttggaagc cgcggggcaa aaagctaaaa agtaactaat gccagccaaa gatcaaattt 240
cattaaatga caaacattgg ccgaaacaaa attttctcgg atcgcaaatt ttggttccac 300
aactggtcaa cgattggcct ttgcaaccct ctcaaattca tcctttttct tgaaagcana 360
actgggggaa gacccttttg ctgcttaaaa aggtcatca 399

<210> 4638
<211> 594
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065h04d1

<400> 4638

gcgttgaatc attcaagata gtacgcaa atacaatag tattcaatag caacatgatc 60
ccttactaag taattattaa ggcatttcgt ttgagtggac ttttaagtaat tttatccgac 120
taaactacat caatactagg aaatggaaag attccttcat gaacatagaa gccgcaataa 180
aaagtcttat agagcattta agagacgaaa ttcagtggat aaaatttcaa gacaaaataa 240
attagaaacc aaaaccatta aataaaaaact accaaacact caaagtctat tcatttccta 300
aagatttaag cagcagttgc ttgttggcg gcaatcctt tcttagcttc ctcaatgatt 360
gatagtttaa tacctttacc cttggaaga gatatccatg ngttttgttc cttgccaat 420
ggtgaacaca ttgccatag gagttgcaaa ctctgggcca gtggcatcct gaacatggat 480
agtctcaaag cttcccttat gcttctctct ggtcttgatc actccaacac gaccctatt 540
ccttcacct gtcacatga ctacattccc aacatcaaac ttgatgaaat cgac 594

<210> 4639
<211> 444

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065h05d1

<400> 4639

cacaaatatt ttttatctcc aattccaaat atatgcactg taatacaacg atgttaacta 60
 tcaaagaaat acacttggtta acatattcac accgtaccaa tttattttta ctcaaaaaca 120
 taacaaaaaa ccaaaactgt agccgatgaa gagaaattaa attaaagcta actttattgt 180
 catcctcaaa aaaataagaa aaaaactgaa ttcattgaaac acaatcaaag agcgatgatg 240
 atgactcgca agctcctgac tagaataatc tcggggagta tctaatagaa aaaagtggcg 300
 gcaactgaaa gcagggtggc aaatactcca acaactccaa gagatgcagc accagagtgc 360
 tgtgggggag gattgacagc accggctgga gaagggctaa aggatntggt gggggggggc 420
 cgcggcggaa ggtggggtgt gcgg 444

<210> 4640
 <211> 588
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065h06a1
 <400> 4640

cggctcgaga attctgcaga atggattatg agcatgcagg cttgcaatgc tcatggactt 60
 tatttgtttc ctttatatga taccttgggt gctggggcta tagagtttat tatatgccat 120
 gcagaggctt aattgcattt gcagaagaaa agaaaatacc tgagctattg aagacatttc 180
 caaatgcaac aaagtatctc aagacaattg taagcttcgg aaaggttacc cctgaacaaa 240
 agcaagaagt tgaaaattct gggttggaaa tatattcatg ggatgaattc ttacaagtgg 300
 gtcaaaatca gagttttgat ctctctatta agaaaaggag tgacatctgt acaataatgt 360
 atactagtgg aactactggt gacccaagg gagtggtgat atcaaatgag agtattatta 420
 ctctcttagc tgggggtaag cgactgttgg agagtgtaaa tgaacaattg actgagaagg 480
 atgtatacat atcatacctt ccacttgac atatatgtga taggtcattg aggagacatt 540
 catatgcatg gtgcttaata gggttctggc gtgggggatg tcaaatgt 588

<210> 4641
 <211> 508
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065h06d1

 <400> 4641

gaataattat atatgtaaaa atgattcatg gatactgtaa tacacctaga gatagaaaaa 60
 gagaagaaag acaacttact tagataagtc cggtagaata gataatatga cgtgaaaaaa 120
 aaaatcaaaa taaatgacgt atccatatat aactactcag cgtatatata gtcacaaaaa 180
 ggaaacaatt gaacggagac aaacaccatc acatacagaa aataaattat ctcccaaatac 240
 aggtctcagg cactggggttt acttccactc ttatacatgt tgtcaatggc attctgatag 300
 tatttaagca actgtggcct cttcttcttg tatgttggag tgataaggctc acgttccatg 360
 tcaaatggaa ttgagtcaag gtgaactgct ttataaaact caaaaccttt caacttcttt 420
 tccttcgcaa tctttgagag ctcttcantt atgtaacttt ttgctcgagc atcttcacag 480
 agagaattga agntcatgga tataccat 508

<210> 4642
 <211> 337
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065h07a1

 <400> 4642

cagcgtttct gcaaattcca atttttcaaa cttaaaaaca aaaacgggcg ttggagaaaa 60
 agctgttatt aattcgggag cgatatggag gtcgtactca aagagttgca cgccnnnnct 120
 tcaatctntg agccaatcgc ttcccgatcc atctcaccat gatttgctcc gcaagattca 180
 attgcgtgtt gaggaccttg cgaagcttgc agaggctgca cctgttcgct gctctaaagn 240
 tgaggatttg agtgcgtgang ttcgacatag caatccttat agtcggctta tggcacttca 300
 gagaatgggt attgtggaca actatgaaa aatgcgc 337

<210> 4643

<211> 316
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220065h07d1

 <400> 4643

 gtgtgttgat tgtttttttg ttgttaattt cttatttggg aaaggtgtgg gggaggggaa 60
 aaaaacagaa aaaaaccccc cccccctaaa aaaaaaagag ggggcagggg gggccggggg 120
 ggggaaaaaa aagggggaga gggggaacat agaaaaacca gaaggaagcg gtgcacaggg 180
 aaagggaaag aagacatggg cagagaccac aggaaggaca tttcttttaa gaggaggaaa 240
 aaaaaaaagg aaagcgccgc ccgggcaaaa aaaaagcagg gaagacggcc cccaagaaaa 300
 aaccgggggg gggaaa 316

<210> 4644
 <211> 466
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220065h08a1

 <400> 4644

 tgaagagtga gagagagaga gagatagagg cacttggaaat ccaaaaatga gagaaatcat 60
 cagcattcac ataggtcagg ccgggatcca ggttggcaac tcctgctggg aactctactg 120
 cctggaacat gggcatccag ccgatggca tgatgccaag tgactcctcc ttcgggtgtag 180
 cccacgacgc cttcaacacc ttcttcagcg aaaccggatc cggcaagcac gccctctcgc 240
 ccgtcttcgt cgatctcgag cccaccgtca tcgacgaagt ccgttgtggc acttaccgtc 300
 aactcttcca cccgaacaa ctcatctccg gcaaggaaga tgccgccaac aactttgcc 360
 gaggccacta cagccgttgc aaagagatcg tagatctgtg cttggatcgc gttcgaaagc 420
 tcgcagacaa ctgcactggg cttcagggtt tcctcgtctt cacgct 466

<210> 4645
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220065h08d1

<400> 4645

aaaccaccaa aatagaagca taatgatgat atcacttcac agtttgaata atggagaact 60

atatcacaca ggagtaaaaa caaaaaggaa cgaacaatac tggttcaggg taatgtaacy 120

aagcatatac cctttttact cgaaacaatt acattgataa taaaaccttc atttatgaat 180

aggcctctcc ttcctcataa ttttccgctc cttcagcccc aacctcctca tagtcctttt 240

caagagcagc aagatcctca cgagcttcaa agaactcttc tttttccata ccttcaccaa 300

cataccagtg aacaaaggcc ctcttggcat acatcagatc aaatttgtgg tcaatgcgag 360

agaacacctc aaaactgcag ngttgttgct gatcatgcat ac 402

<210> 4646

<211> 272

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220065h09a1

<400> 4646

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gctattaggc tgatgtattt tcttctctt ttttacttgt gtgtagtttt ccttgcctaa 120

agtacgtact taagtctttt tcaatgaaag aaataagcaa aaaaaaaaaa agaaataaca 180

aaaatagggg atgaaaaata gaatgaaaaa aaatgtttat tatttttatg gataaaaaata 240

gaaaaaaaaa acataaatga atttagtcct tg 272

<210> 4647

<211> 272

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220065h09d1

<400> 4647

caaggactaa attcatttat gttttttttt tctattttta tccataaaaa taataaacat 60

tttttttcat tctatttttc atcccctatt tttgttattt cttttttttt tttggcttat 120

ttcttttact ggaaaaagac taagtacgta cttaggcag ggaaaactac acacaagtaa 180

aaaagagaag gaaaatacat cagcctaata gcatttgaga aaaaaaaaaa ggcaaaactat 240

atataccacc ctttgactag cttttcttca ta

272

<210> 4648
<211> 476
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220065h10a1

<400> 4648

tcttcacttt caatcttttt ccttccttt ccttgtcttt ttattttttt acatcaaaat 60
taaaataata acacccatca aacaaaccac acttctcccc ctccctttga aaacacctca 120
ataaatctcg atgatcatgg cagcactcaa ttcaagcact tgtgccaaac ctcaattccc 180
tcacctctc tctcctcttt tctctttctt ttcatcatta acaagagatt tgggcttccc 240
cacaaggttt cagaagaagc ccattagaaa ggtgggtggat tgtgctctac actccccccc 300
agtgatccat ttcccaaacc agccctacaa caaacctgaa attaccaaag aaccaccac 360
ctccaccgcg gaaagggctc agtgggaacc attccaaaaa gccgcagcaa aggccctcga 420
catgttcgag agcgcgttgc tctcacgca gctcaaccaa ccttttcaaa aacact 476

<210> 4649
<211> 564
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220065h10d1

<400> 4649

gacaagagag tcaggaaggc aagattgaaa attgaagaac caaaagccaa acagaaagcg 60
aattcttttt taaaacaaaa gaaaggaagc aagaaacaga aagcagctga gcttcatcca 120
caaactacaa gctgattcgc gaaagcatag ataaatattt attattgaga agggtagaaa 180
aggcaacaaa atgtttgttg tctgaaatgt gttttaccgt ttaagcgacc aaataaaata 240
gtccagggtg acttcaatga gcctccacaa acgtgccatg gaagccatag ggcactcttg 300
aaggcagcat gacagtggcc tccaacttca aatcaagtgc attcagaatc tgcaactcgg 360
actgccacgt catctcgtca tgcacaaaag ccatcacgta ccttcatcc tcattcccat 420

tctccacgt gttggcaaga agaatggctc tccaccgaac cttctttctc cgtactcgtg 480
 cctcttcaact tccccactct ccagggtccac cttegccacc cncgacacct tcggccacgg 540
 ttccgctatg cacaatatg cgaa 564

<210> 4650
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220065h11a1
 <400> 4650

gaacagagca aactgaaca atggcgcaac ctctctctc ctcgaagcct gttgtccctc 60
 tctgaagga cgagctggac atcgtgatcc cgacaatccg aaacctcgac ttcctcgaga 120
 tgtggcgccc cttctttgaa ccttaccacc tcatcatcgt gcaggacgga gacccaaca 180
 ggaccatcaa tgtccccgaa ggcttcgatt atgaactcta caaccgcaac gacatcaatc 240
 gcatectcgg acccaaagcc tncctgatct cgtttaagga ttctgcgtgt cgctgctttg 300
 gttacatggt ctccaagaag aagtacatct acaccatcga tgacgactgc ttcgttgcta 360
 aggatccttc tggaaaggat atcaatgcac ttgagcagca cattaagaat ctcttttgtc 420
 catccactcc attttttttc aacacccttt atgaccctta cagagagggtg ctgatttcgt 480
 ccgtggatac ccttttagtc ttcggagggt gcccctatgc tgnttctcat ggcctctggc 540
 tcatatacct gattatgat 559

<210> 4651
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220065h11d1
 <400> 4651

atcaataaat tgggtctataa tcttgcatta taaaaaaaaat atggtaacaa atatgataat 60
 caattaaaac tgacaaggaa gaaactactc caattgaaaa ctaaaatccg caaccataaa 120
 aggttcactt ggcagcagca gcaccattgg ttggctttga aggaacttct tcagatgtgt 180
 tgttgttaag ctcatcccaa gcttcaatcc aagtaaccat ggcactctgct agcttgatga 240

agtagggatc aacagcccca agcttctcct tgacttgctt ggagagttca atgtaacatt 300
 tttggacaga cgtgcactct tttaaaagag tggcactttg gaagaatgga atga 354

<210> 4652
 <211> 491
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065h12a1

<400> 4652

gaggtggagc tataggtctt ggtgctccat ctatgcctgc tgctttgaag catcctagga 60
 ccccccaac taatccttct gttgactatc catctggaga ctcagatcat gttgctaaga 120
 gaaacaaggc caatgggaat atcagatgag gtaaatcttc ctgtcaatgt gttgtcagct 180
 acattcccag gtcatggtca acatagtcaa gcttttaatg cacctgatga catacctaag 240
 actgttgtgc gaactcttaa tcaggggttca tctcctatga gcatggactt tcatccaatg 300
 caacaatctt tacttcttgt tgggtacacat gtgggggaca ttgctttgtg ggaggggtggg 360
 ttctagggag cggttggtct caaggaattt caaagtttgg gatcttagtg catgttcaat 420
 gccatttcag gctgctcttg caaagaccgg ggtgtttctg acaatcgtgt aatttggagt 480
 cctgatggtg c 491

<210> 4653
 <211> 377
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220065h12d1

<400> 4653

ctaattaaat agctagaagc aacttgaaag tactcaaaag aacttgtaca tcattcttagc 60
 attaaactta acaagaattt ttcacatcta ttggcaaatt acaatgtgat ttgggtcttc 120
 caaccaaatg agttgctcca aacctttggc atgtacgatg gatggattta acttagctgg 180
 atcaactgaa ttggagagag tgccttgcac taacttaagt acaaatttag ttcttaaaat 240
 ggccagcaag ccaagtatgt aaaagaaact tgccttcggc tgacatggat catctttgag 300
 cttgatctga aggtccaact gaagtagctg ccacattgct tgcagacca ttctcaatcg 360

gaggaggcac accccac

377

<210> 4654
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220067a02a1

<400> 4654

gccacttggt cactcatttc cacactctta ccttctcctt cttcttcttc tttatcactc 60
tgtcgtttctt cctcaaacac caccaaacca accaccattc acctctgcaa atccctccat 120
ctccaaactg ccatactctt cctcctttgc ctgccaaagc caaaaccggc gcttccaatg 180
ataccgctct tccccaaact caccgtttcc aactcccttc tccttcgctg cacctccctc 240
gtctctctct tcaactctgt ggtctacccc ggcgactccg acgacgtctt tgatgacacc 300
tccccaaagga agtccagtc cgatgaactc gacaaccgcc gtctcttcca agagaacact 360
ccctacgttg tctacataac caaccttgct gtcaagcagg atgcgtatac attggacgcg 420
ttggaggacc ctgaggggtc aggatctggc tatgtttggg ataaggaggg tcatattgtg 480
accaagtatc acgt 494

<210> 4655
<211> 500
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220067a03a1

<400> 4655

caccattcca atttccatgg cactctcctt tcgccccgtc atccaccccc gcgtcaccca 60
ccggtcactc tttcagttcc tcccaccaa gcctccccct cttccaactt cgccacctcc 120
ctccgttctc ctccccctca cgcgtcgccg cggcggettcc cttccctctt gectctccga 180
cgacgccgtc tccacccgca acttcgaccg cggttcacc gtgatcgccg ccatgctccg 240
ccgcatcgag cccctcgaca actccgcat ctccaaaggc gtgtcccccg ccgccagaga 300
ctccatgaag cagaccatct ccaccatgct cggattgcta ccctccgac acttcgccgt 360
caccatcacc gtctccaac accccctcca ccgcctctc ttctctcca tcgtcacccg 420

gtacactcta tggaaatgcgg agtacaggat gtctctgaca aggatttgga tatatcaggt 480
tccagggatg aagggtcaga 500

<210> 4656
<211> 490
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220067a04a1

<400> 4656

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tcgtacagct ggggcgatcc ctgtgcttct gaggtagtag taatagagtt gtgtttgata 120
agacgtgccca tgtgaacagt agaagaggag atgagggata cggcaatagg tgctgcttat 180
gtctgttaat ttactagcca ggtatgagaa tacagtgaag agaaaacgga gtcttcgata 240
ctgagatgtc ctatacgata gagctggcat gaacccgaac tgaacaaatg actggggacg 300
ccaggggaat cgatcagggg aaaaatggac aattgacagg gacattgcac ttatcgagaa 360
actcgaacac tgtggaagcg aggctcacia cgctcttgag tcacatcatt tcgagagaga 420
cgcagaagct gggctttaca gggaggtcgc aggcgcgtgt gctgggtactt gggtgactgg 480
gcccagagaa 490

<210> 4657
<211> 560
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220067a05a1

<400> 4657

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cgtcggcggg cgtcctgttc gagttgagcg attcatcagc ttcattatga gacttaacag 120
tacaaaactc cttagggcct tcttcaaact cctctttcgt gccactatct tatctcactc 180
atcctcgtct tctctttcac cttcaactac cctcctctcg ccccagactt cacctcccac 240
cgccacctcc actcccactc ccacttcctc tctcctcct cctccttcgc ctctggggag 300

aagcaggtec gccactcctc' caccctcgc cgcccacaacg gcctcaccgt cctcgtcacc 360
 ggcgcgcgtg gcttcgtcgg cagccactgc tcccttgccc tcaaaaaacg cggcgacggc 420
 gttctcgggc tcgacaactt caacagctac tacgatccct ccctgaaacg cttccggcag 480
 gcaatgctct ggaaacacca gggtttcatt cgggaagggtg accttaacga cacccttg 540
 cttgagaagc tcttcgacgt 560

<210> 4658
 <211> 429
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067a06a1

<400> 4658

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 cagcgcagcc catggccacg taaacggcgt cgtccacgaa gcctctctcc catcctacct 120
 tcgccgcgat gatagcggag gcgatagcca gtctgaatga gagaaccggg tcgagccgct 180
 acgcgatcac ctaatccatc gaaggctggc acagggtggt gcctacaacc tacaggatgc 240
 ttgatctaga ccatttcatg aagtcggcag atgctggcaa gctacctaag ggcatgaact 300
 ctttcatgct tgtaccgggt aagtctgtc ctgataaagc cgatgctgct cccaagaagc 360
 ccaccaaagc tgcagttaat cccgtcgtca agcccgctt caagcccata gctgctgcac 420
 ctaagaaga 429

<210> 4659
 <211> 415
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067a07a1

<400> 4659

gggcatatct cttgcctttc tttgatgatc tgtcctcata cctaacttct atgttcggta 60
 aagacagaac ctcagaggaa aggagaattg ccatttgtat atctgatgat gtcgctgagc 120
 atggtcgtga agctgctctt aaatattatg agactttgct tccattctta ctagaagctt 180
 gcgatgatga atatccacat gttctacagg ctgctgtcta tggcgttggg gttcgtgctg 240

agtttggggg atctgttttc aaaccccttg atggataggc actttcaagg ttagatgctg 300
 tgataaggca tacaaatgca ctacattctg ataacataat ggcatatgac aatgctgtgt 360
 cagctcttgg aaaaatatgc caatttcacg gcgatagcat aaatgcagca caggt 415

<210> 4660
 <211> 588
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067a09a1
 <400> 4660

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 gggagatggc cgtgccaaga tactcaacaa cggcgatctt ctactcttt cccttgacaa 120
 agcctctggc tcgggggttc agtcccaaaa acgagtatct cttttggcaa gattgatatg 180
 caactcaagc ttgtaccogg aaattctgca ggactgtca ccgcctatta tttgtcatca 240
 aaaggatcaa attgggatga gattgacttt gaattcttgg ggaatctgag cggtgaccca 300
 tacattcttc acaccaatgt gttcagtcag ggcaaaggca gcagagagca acagttctat 360
 ctgtgggttcg acccaactgc agatttccat acctattcca ttctttggaa tcctcagcgc 420
 ataatcttct cagtggatgg gacccaata agagaattca agaacatgga atcaaaagga 480
 gttgcattcc caaaggaaca gccaatgagg atatactcta gtctatggaa tgctgatgac 540
 tgggcaacaa gaggtggact tgtgaagaca gattggacaa caagctca 588

<210> 4661
 <211> 619
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220067a11a1
 <400> 4661

gtgataatgg tgactccaac tccatatgcc ctagtcataa tgagcctaata acaccacatg 60
 ccgttcctgc tgatgtaaga cctgaaatca agagtggatt agacaatgag aatagggata 120
 atgaaaagca ggctgctgct gcacgtgcag ataatggaaa ctcaatctca aagaacttgt 180
 acttttttggaa tcctgatgat tcatatgatg gtaatgagtc aggaacagaa gaggagcaat 240

cagcttttat gaaggagctt gaaaatttct ttagggagag gagcatggaa ttcaaaccac 300
ccaagttcta taaagaggag cttaattgcc ttaagttatg gagatctgta cacagattgg 360
gcggctatga caaggttacc tcatgtaaatt tctggcggca agtgggagag tctttcaaac 420
ctccaaagac atgcacaaca gtttcatgga cttttcgggt tttttatgag aaggcacttc 480
ttgactacga aaggcataca acanaaggtg gtgagctgaa tgtgcctatt actcctcttg 540
cagagccaat aaatattgaa aatcagctctg tccagggttc agcatcatag gtagggcacg 600
gagagatgct gcagcaagg 619

<210> 4662
<211> 615
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220067a12a1
<400> 4662

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gacctaaatg ggattacata tgctggcaag aatgattata caggaaaaaa ggagagcagg 120
aaaaaggaga atcactcata tcgggggtcat gactttcaag atgttagtac agatacccca 180
tgcaaacagg aggtatttca tgctcctatt cagaatcagt tgccggactg tgatactgaa 240
agatccacaa agagatctct tttggaaaga actgatcaag aagtacatgg aaaagggaag 300
ccattgccat catttccatc tgaaggatct caagttgaga cattaggtca ttgcccacga 360
ccagttggct tacataaagg aaatggagat atggaagttg atccttccaa agtggatgat 420
gtgtcaaagt taaaaagaa gcaattgaaa aagaccggcc atcanaatgg aaatcagcaa 480
attggttcac gaaatcccat acttaatggt cacaagttca aggagcttga tgcccctagt 540
tcagctagaa ggtattctta cactcatgct gctaacaatg ctctgaanga agctaagatc 600
ttaacatctg gctga 615

<210> 4663
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220067b01a1

<400> 4663

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tgctttgctg cgccgccgcg acgcgagagt gaaagacggc gagacctccg caccgctgcg 120
ccgccactag agctcctcgc cctcaccttc gcgagacccc ctcatctctc attcagtctc 180
agactctcag cacctcaccg gcgcggttag agacagttct cgttggaact caccctctca 240
tctcaccgga cctcgccgcc attgatcttc atcttcacgg acctcaggaa tgccagaacg 300
caaaccagtt gttgggttat catggcaacc acagttgcct attccatcat cattaagaagc 360
cactgatggg tctcacacca aacctcaaac tgaggcatca agcactgtta ggaaatccag 420
ttcagagctg gttgatggct tttttgtccc tccaaatgat ccccaaaaat taaacaagtt 480
actgagaaag caagctaaag atact 505

<210> 4664

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220067b03a1

<400> 4664

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gtcgggctcgg cgatctgctc gagctaacaa ccacgtatcc gctttctact tataacgagt 120
gaggagaaat gtgccgtctg aggatcggac agtctgagtc aaggaggtag ccgatggagc 180
actataacag actctctggc ctggacatgc cgcacaagta tgcacgcacg accgcatcaa 240
cggacaacac tgagctacga gagatggcac cctgggtacg agcatgaaaa ctggcaggca 300
agcccgacat gatacttgaa aggcgtgggt caagaggcca gactaggtcg agcaaccctg 360
atgatcatga agagctattg gagaacgagc gaaactgtag agaggacccc aggtcttgat 420
ccaaatgacc ctgtgcaacg agggaggcag tacctaaacc tctgcacat gtgaagggtg 480
accctaactt ccgctctta 499

<210> 4665

<211> 626

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220067b08a1

<400> 4665

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agaagaatgg atcactcttg ggaagcacia aagcttcttt tcttagtggg aggaaaactga 120
aggatgaacia ctttacagca ccagttggag cactgatccag cactacagtt tgcgcagttg 180
ctgagcctga taggcctctg tgggtcccag gcagcaccac tcttccatgg ctagatggca 240
gtttgccagg agattttggc tttgatcttc taggtcttgc atctgatcct gagagcctga 300
gatggaatgt ccaagcagag cttgtgcact gcagatgggc catgttggga gctgctggca 360
ttttcatccc agaattcttc acaaagattg gtatcctgaa cacccttca tggtagactg 420
ctggagagtt ggagtacttc acagacacca ccacactctt catagttgag ctctttttca 480
tcggttgggc cgagggtaga aggtgggctg acatcatcaa gccaggctgt gtcaaacactg 540
accccatctt tcccacaaca agctcacagg aactgatgtt gggtagccag gtgggctttg 600
tttgaccact tggctgggga gtggtc 626

<210> 4666

<211> 572

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220067b12a1

<400> 4666

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ctttgaccgg caagaccatc acccttgagg tggaaatctc cgacaccatt gacaacgtaa 120
aagctaagat tcaagacaag gaaaggatcc cacctgacca gcagagactt atctttgcgg 180
ttaaacaact tgaggatggt cgcacccttg ccgattacaa catccaaaag gaatcaacct 240
tccatctcgt gcttcgcctc aggggtggca tgcaaactt tgtcaagact ttgaccggga 300
agaccatcac ccttgaagtg gaatcctcgg acaccattga taatgttaag gccaagatcc 360
aggacaaaga gggcatccct ccagatcagc agaggctgat tttcgctggt aaacaacttg 420
aggatggaag aacccttgct gattacaaca ttcagaagga atccaccctt cacttggtgc 480

ttcgtttgag aggtggcatg cagattttcg tcaagacttt gacaggaaag accatcacct 540
 tggaggtgga aagttctgat acaattgata at 572

<210> 4667
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067c01a1

<400> 4667

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 accgaaatta tacactctaa atgttgtagc agctacgctg agctactacc ctatcagaca 180
 ttagagccta ctctaataac tgaacacgct gcagaagtag ctaatcacga gatattgcat 240
 gaacataatg agttcctgga atcttccaac aaaagaacgc gcatgatatc gcacatgcat 300
 gcacattgcg attcttaaga gtgctgcttt agaatgccac actatgtctt gcaaccctga 360
 tgatgatgaa aagcttttgt cgaacttgtag aaactctagt gtgtcaccgc cggctctttcg 420
 cagctgcacc atgagcaatg agggagccac ttgaaaaacc tatgaatcaa ctgaaagggtg 480
 accctttctt ccgctcttat caccttgac tgcattctat aattccgctt gtgaacatta 540
 aatc 544

<210> 4668
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067c03a1

<400> 4668

aaactgattg atcatcatgc tctcattaac aatataaaaa ctaaacaatt aaaatcaaaa 60
 atagaaaaga aaggaaatta aaaacagctg attaattaac cttgtagcat catcgtgcat 120
 catcataatt catcattaac ctatctaata cattattatt tgcttcccc ttagatcaag 180
 aactagaaga tccattggca ccaacaacgt tcaccccatc atagggatta ctactcggat 240
 cttcagcgcg atcttcacca ccatcattgt tagggttttc aaaaaccttg acattacttg 300

catttgcac attatcagta gaaatattat ttttagtagt aatattaata tcattactag 360
 taacaatatt attggtatcc tttttggcaa aggtgttttt gctggtatgc atacaaacct 420
 tgagaacgct tctatcaacg ccaacttcgt tgcaaatttc gtgaatcaaa tctcgttgg 480
 gcttctgaat ct 492

<210> 4669
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220067c04a1
 <400> 4669

cggagtaatc agatnctcga cgggtataga ctagatatga cgttccacgc gctcactcgt 60
 agctcgcaat ctgctcgagc tgcggattgg gtgaagccat ggttggtatc aatttgaccg 120
 atgacaaggt tgagaggtat cgtcaatcgc tctgaatgaa gtgaatcata attctcagat 180
 ttgtttctct gtggcgcttc aatacggact attaagggtt atagttgcta cttatatatt 240
 ataataaggt tatgtatcta gtgtccggtg ttttgaaccg tgттаатсgg attttagaaa 300
 aaccgaaggg aataaataga taggtagcta tttgggcatg ccttgtaata tgcctatact 360
 tgggtcttaca tattcagcgt cgcggtattg tgttgagtta gtagtgcggt cgttgtaaac 420
 gagaatcgaa tcattcttga ttttgatat tcaatcctaa agccaataat ggaccaa 477

<210> 4670
 <211> 601
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067c07a1
 <400> 4670

ggaaaatcat agtattttgt aactaaatgc ttttgttctt gtgaattaat tttcattcac 60
 tttcagattt ctggtttcat catctattca aatagcttcc agcataatat tttgaatttg 120
 actgctaagg aaagacccca ttttctgag ttggaaagtg acttatattt ttttgagctg 180
 agaggaatat ttggaatcaa ggattgtgtg cttgggtgac cagacttgct atctcagcaa 240
 ttgatgtgag atccacgggg cgaaaaaaga agcaacttgg ctttatatta ttcacagat 300

gtctgcattc tggagctgag gaaatgggtt cttgcatctc aacaagcagt aggagtactt 360
 gtagcagcaa gagcaatgga gatatgggtc ctecatcttg cttagaaatt ggatgctgtg 420
 gccaaaagag aacaaggaga acattctctg atcatgttat ttctctccac catttaccat 480
 ccttacctag cagaattttc tccaatggaa agagccgagg ttcgtgcata tttaccagca 540
 gggccgcatg gtattaataa gatgccatga tgtgtggaag attcatgtcg aagatctatc 600
 t 601

<210> 4671
 <211> 614
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067c08a1

<400> 4671

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 atgcattgag cacttctgag cttttgggtt cccttggtgc tgcttgctag cttcagctat 120
 gctccttctg tttcgccac aactgaaaat ttcaggaat gaaatgaaca cagatgggaa 180
 ggtgataaat gaagagttag caaaaccaag tctaaaagga catgatgaag aagcaaagtt 240
 caaaggattt tttccaaaac caattcctat agttaaacca attccaaagc caattcctat 300
 tattaacct attccaattc cagtttataa gcctattcca aaaccaattc ctattgttaa 360
 gcctattcca aagtcaattc cagttgctaa gccaatcct aatgaagaag aaaaattcaa 420
 aggatttatt ccaaagccaa ttcctataat taagcctatt ccaaagataa ttcctattgt 480
 taaacctatt ccaaagataa ttcctatcgg taaacctatt cctattccag ttataagcc 540
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 ttcccgttgt aaac 614

<210> 4672
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067d03a1

<400> 4672

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attgtttttt aagcaattcc cgagcattga tcaaatgggt ttttgttcat ttccaatttt 120
ctgaaatagc gtgcccttaa aaaaaatatt atctgatcac attttctgct tctgcaaatt 180
ctgcattttt ctctttcttt ctttctttct ggggtctctg ctgaacaagg gaatctcgca 240
gattctttgt gtttctcttc ggttttcggg ctcaaaattt aagcttttgg accttttagtg 300
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tgagattccc gctgatgcca acaaaatgga ctcaaacct aaggctgaat ctgaattcat 420
gtgcagaagc tggttgacat gttcacacag ttgaatcctt tggctaagga ctttttcctt 480

<210> 4673
<211> 511
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067d04a1
<400> 4673

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ttccatagaa caagcatggt aagttccttg ctgatggagc aggcaaatac accaatgccc 120
taggacttga gcttgacctt accgacaagg gtctcggtgt acgctcaaag aggatagcta 180
agatgggtgga agacctcaag gagaacgtcg caaatgatga aagtggatga gagttcacca 240
tattcagtgc tgaagagatc attaaggtcc tctaaaccct agaatcctct tgcattggtct 300
tttgccgact ataatgtgtg gcgtgactca tttgatgcct gaacatacta aaatgctttc 360
cattttcata gatgtaatcg tgaaatgtgc tctggaaagg accatgattt ggtgcatatt 420
atggaaatca ataagatttc ttgcttcata tacttcttat tattagaaaa caatttggaa 480
gccaattttg catccttgaa tggggcccca a 511

<210> 4674
<211> 485
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067d05a1
<400> 4674

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 agtttgagg gaagtatgtc cctgagactc tgatgcatgc tctcactgag cttgacgctg 120
 ctttctattc cctctctgat gatgaacagt ttcagaacga actaactggg attctgacag 180
 attatgttgg acggtagagt cctctctatt atgctgaaag gttgacggag cattacacga 240
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 gcattattgc tgaaactgga gcgggtcagc atggagttgc cactgctact gcatgagctc 420
 gatttggttt acaatgcgtt atttatatcg gcgcacagga tatggaaagg cacgctctaa 480
 cgttt 485

<210> 4675
 <211> 350
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067d06a1
 <400> 4675

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 gtctagctaa cgtcagcctt attgctccga atgattttaa agagattaca tgggtccagtt 180
 tcaggggatt ggctgaccta actaaagctt acacgcttga gatcacccat agataggact 240
 atgaaagggg caaccttgga agatacagcc gctgacaaca tacctgaaac tgtaattgtg 300
 actgaatact gtcagcaaat tgtctatgac tatggcggtta ttgactgtgg 350

<210> 4676
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067d07a1
 <400> 4676

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 atgcatcgcg cacttccgag ctctggggat cccttgggtg tgcttgctag cttcagctat 120

gctcacctat gttgaagcca caactgaagt cccagggAAC gaagtgaaca cagatgcaac 180
gagctataag tggagtgagc taggccgaat caacaggaca tgaggtaact aagataatgg 240
atacctccga tccaattcct atcgttAAC caatatccaa agccagtccc tatcagtaaa 300
cctactccaa cccaggttaa taagcctatt gcaaaaccaa ctctattgg tactcctatt 360
ccaaagtcaa ttccagttgc taagccaata cctaataag aagagaaatc caaaggattt 420
attccgaagc c 431

<210> 4677
<211> 595
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067d09a1
<400> 4677

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tcaagcagat tattaacact tgtatgaatg atcagaagga taagctgtgg cctatgctgc 120
aaaagcttgg ggtcaccatg aaaatctgga ggagaaggac ctcatgggta aagcattgat 180
gaagcgtgtc atgcaaacct ggcttcagc aagtagtgct ctattggaaa tgatgatatt 240
tcatctaccc tctccatcaa cagcccagaa gtatcgtgtg gagaacttgt atgaggggtcc 300
tcttgatgat caatatgctt ctgctatcag aaattgtgat cctgaaggtc ctctgatgct 360
ctatgtctcc aagatgattc cagcatctga taaggggaga ttttttgcct ttggccgtgt 420
attctctggc agggtttcaa ctggtttgaa ggtgaggatt atgggaccta attatgtccc 480
tggggagaaa aaggatttgt atgttaaag tgtgcaacga actgtcattt ggatgggaaa 540
gaggcaagac actgtagagg atgtcccctg tggtaataca gtggctatgg ttggt 595

<210> 4678
<211> 426
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067d10a1
<400> 4678

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cctcaaactg aagcccaaaa cggcgcaagc gcaagtggaa ctataccatg gagaatgtgc 120
 atacttaacg agctggcacg ctgaacagct agccatgaaa gggattggcg tgctgctgga 180
 acggtgactc ttataactgg ccataattct ttgcgcata acctcgcatg agctgataca 240
 accatacagc gcataccatc acttgacgtg catttcgacc gagagcctgc ttggttttcc 300
 accagagaca aagacttatg tagatactat gctctcaatg aaacctggag gcactgatct 360
 ggaatcctac tccaatgaga atagtattgc catgggattc aaagctgatg atgatcaact 420
 ggttat 426

<210> 4679
 <211> 544
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067d11a1

<400> 4679
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 tctacgtgaa gatccttggtg tcgcatagag ctagttaaaa tgtctgaggg aaatgcaggg 120
 aaaggaaaga gaatcgacat cattggcgat gaagccttat tgcagcaggc tatggctgtc 180
 gcaatcacag ttgtggtcaa tctcaatgag aatgggttaca gcaatgatac agaggacaac 240
 aagaaaaatc atgtagatta ttctataaaa gccgtccaaa ccctttgtca tcccacagat 300
 tataagagag aatgcgagga aagccttata gctggggctg gacataccac agatccaaaa 360
 gaacttatca aaattttctt gaacatcacc attacaaaaa ttggtgatgc actcaaagaa 420
 actgatcttg cgcgatgatg tgactgatga acccagagtc aagatggcac ttgaaacatg 480
 caagcaactc atggatcttt ctattgggga aataacaagg tcacttgatg gaatatgtga 540
 gttt 544

<210> 4680
 <211> 630
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067d12a1
 <400> 4680

ctagtcacaa tttgttgag gagaagagat ggtttggcca attaggtcca gaataagttc 60
tcttctctgt tctaaggcac ctttagttgg ttcatacatc tatgactcat gtgggtgctt 120
acgcttttct gcttcaacca gctgctccat aacaaggcat tggccaaaaa ttatggattg 180
ggtacaaatg gaccgttgcc gtgcagcagc atcgttacct tcgatcaaag agaaacaacc 240
agaaagtcac agtaatcgtg tcagactcgg tcaagaaatc aaaggtcttg atgaagggaa 300
tatggctgaa attgatagct atcaaaactt gtttggtttg atgaaacaga ggtttctgag 360
tttcaagagc caaagatata taaaagagtt ggagcatttt gaagctcttg ctgaagctca 420
atttcctaag gtgatagcaa acagggttacc tagcccattht aattttcttg tagtacaaaa 480
ctatcacatt ttagcttaat ttattgggta tgggtggtctt taactgataa atccaagtac 540
agtttatggt gattgcttgt gcagactcta gggatgccc ctctaacata ttaggattcc 600
aaccttgaga agtctttatg atacgtaaca 630

<210> 4681
<211> 420
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067e05a1
<400> 4681

tgagaaatat gaacgacgga tttcagacta ttcagtatgg aattgaatca tatacatgga 60
tcagtgggat tgtacacatc ttacgatgtt acatgatact acagattcaa tagcaaacag 120
gcggataaat agatgaagca ttagacttgc actttcagtc gatgcatgag cgagacaaat 180
agctaattgt agctagcaat atctcgattg atataccagt aaatggtatc tttcgtagaa 240
atagcattct tgcttatgtc gatgattctc aataccgaac acagagcacg ggaatcacta 300
aatataggac tattggtgtg aatgacattt ttagcacgga ggattcttta attgagcatg 360
aaggaggtaa agaatttaag acagaatggc atcttaaagc atgtcaagca tagttcattt 420

<210> 4682
<211> 493
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067e06a1

<400> 4682

ctttgaagtt cacacacact tgttcacccc tgaaatggaa cacaacctca caatgaagtg 60
tcgtagaaat gaaaaccttc taaccagtgg cactcatttg ccagaaagcc ctcgagtacc 120
aatggagttt ctgtcaagat catggagtgc ctcttctctt gaggtctcta aagcccttac 180
acttccacca cctccacctc tttcttctta cataccttcc aagcctccta atgcacctc 240
ttctgtgact aactccattt ccgaagaaac ttcagaggaa ttctcaacca tgtgtggcaa 300
ccagttctct tttgcttcct ctgccacctc acaacttgtc cttgaccgca taatgtcaca 360
gtccgcaaga gaggaagtgt ctccattaac gtcaggtaga ttgtctcata gtagtgaacc 420
tttgaacggt ggtgcttctt taaccggaac ggatagtcca ccaatttctc cttctgacga 480
gtttgacgat gtt 493

<210> 4683

<211> 631

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220067e08a1

<400> 4683

cgcgtcgctc cgcaccagtt tcaccgcacg aatatcttgt tgtttggagc gatccgagaa 60
aaactctgta aacatgttgg tttaccagga cctccttaca ggtgatgagc ttctctctga 120
ctccttcctg tacaaggaaa ttgaaaaatg gaatgctgtg ggaagttgag gggaagtggg 180
ttgttaaagg agcagttgat gtagacattg gtgcaaacc ttctgctgag ggtggaggag 240
aagatgaggg agttgatgat gcagctgtta aggttggtga cattgttgac acattcagac 300
ttcaggagca acccgcatc gataagaagc agtttggttac cttcatgaag aggtttatca 360
agaatttgac tcccaagctc gatgcagagc aacaggagtt gtttaagaag cacatcgagg 420
gagcaactaa atacctgctc tctaagatta aagatttcca attttttgtt ggtgagagca 480
tggttgatga tgcttgcttg gtctttgcct actacaagga cggcgctgct gatccaacat 540
tctgtacta tgcatatgcc ttaaaggagg tcaagtgcta agtgacttaa tgtacccagc 600
tatctactca ttttatctaa gtttttttac g 631

<210> 4684
 <211> 571
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220067e11a1

<400> 4684

cggactcgga gaccccttca cggagctccg tcgtgggctc gtggccaagc accacggcaa 60
 agatcggtag ctgctctcat cgccggtggc ctcaaggact tgggcaccaa aaatcccgtt 120
 ctctacctcg atttcgaagt tcccgcctaa ttcacacggc ttatgctgaa gacactgctg 180
 ctgctgctgc aagaaaataa aataaaaatt gccaaaatag ggaaacacaa aattgttggg 240
 ggtgttgagg tgctaattag aggacaaatt gcaaatggct acatctgtta ataagattgg 300
 aactggaag cgaaaagagt tgtggtttct tgtaatttat gcaatccttt tctatgttat 360
 catcatcaac cgttcacttc aactctctcg tgattattac aaacagcttc acggtttacg 420
 cccgggatgg ctcatagctc attacctcaa tgatgtttca gatgctcagt ggaggaattt 480
 gcgaggaaat atacctgttc ttactcttgg tcttgcaatt ttcactctgc tggccaattc 540
 atgagggcct tcattttaga gtgaanggaa t 571

<210> 4685
 <211> 549
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220067e12a1

<400> 4685

gaaagagcac catggacca gcattggcga ctgctgtata atgcgctaag gatgtaaagg 60
 tgatgcaaga tggcagtggg gaattcaaga ccatcactga tgccattaaa agtataccta 120
 gtgggaacac taagcgtgaa taattacatt ggagctggaa attataatga gatcatcaat 180
 attgagaaga caaagccttt tgtcaccttg tatggggtag cagagaaaat gccaaacttg 240
 acttttgggg gcaactgcaca acaatatggc actgttgata gtgctacatt gattgttgaa 300
 tcagattatt ttgtggcagc taacatcatg atctcgaaca ctgcaccgag acctgatcca 360
 aaaacgccag gaggtcaagc agtggcattg cgtatttcgg gtgacaaagc agcattttat 420

aattgcaaga tgtatggatt ccaggacaca atttgcgatg ataggaatag acattttttc 480
aaagactgct taattcaagg caccatggat tatattgtcg gaagtgggat gtcactatat 540
gagagtact 549

<210> 4686
<211> 357
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067f02a1
<400> 4686

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ttctaatttt tttggctaga ggcgatattt aaaaacgaaa aaaaaaattg gttatttggt 120
tccagttcgt tctttacatt tgagtatcta aatatgtgaa ttgcttcagt acttttttaa 180
aaggaatata tttcaaaaaa ttaaaaagggt taatttctgc attttatgtc ctagtggtta 240
taccctttgt gagtccaaat ttgagtgatt acccttcattg tattggtggt tatatgggta 300
cgggtttaatt ggctctttac atatgtgttt ctaaattagt gattaaaacg cttcagt 357

<210> 4687
<211> 561
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067f03a1
<400> 4687

cgcactaggt cggatctacg tacggatatcg gcatagctat gacgttgcatt gcgctcattc 60
gtaagctggg cggttctgctt ttgctaagtg tattacggga agcaaataag cacgggag 120
agcgttgtaa tcaaagtaat ctacaaagag caagtgtgaa aagaaggaat gatggaacaa 180
atcaaacycg aaatttccgt gatgcgtatg gtgctacacc caaacgcgga ggaaatcaag 240
gaagtgatgg ccacaaagac aaaaatcttc ttgcgatgg aatacgtgcg tggcggggaa 300
ctcttcgccaa aaatctccaa aggcacactc aaagaagatc taggctgcaa gtctttttat 360
gtgttaatca gcgccgttga ttactgacac agcaaagggt tattccaccg tgatctcaaa 420
ccacagaatc tactccttga cgaagacgaa aaccttcaaa tctacgattt cggactctcc 480

gctctgacgg agcagattgg gtacgatgga ctcttcaca gccaatgcgg caccctgcc 540
tacgtgggac ctgaagtgtt a 561

<210> 4688
<211> 509
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220067f04a1

<400> 4688

tccttttttt gctgatttct tttagatata aacaccagat cacatttatt gccgctcgct 60
acgcagatac gctgaacacg ctgactatag ccataaatgg ggacgcacgc atactctaag 120
ttgaacgatc ccttatgtgg gtaggataca tcccacggag agcatgcata gtagtgatc 180
aattaggatt atgcaaataa ttcaactaaa catctactct atgggactgc ataaggagt 240
acaataaaga gcatagctaa aagagaccac ttcactctaa ggtagacacg tctgaggtta 300
cctaattgca tgaagattga cctacatatt catggctcaa aatctgatga tagctcttag 360
gctttgcaa actcagcgct gtagtgagca ctggattcca ctttctttgc atcattcagg 420
tgtttaacag ccttaatcaa atcttcattg atcacatgat cacgttctgc actaattgat 480
ggcataccag cttccgagca cacattttg 509

<210> 4689
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220067f06a1

<400> 4689

ccgaggagat cccttccgcc atcaagccct acaggaactt ccagaaggag aagaagctcg 60
aggacaacga cttcaccggc gccgttttcg aaggcaagtt ttacggcccc gatgaggta 120
agaacctcga atccttgccc acgcgcgctg agatttacgc cacccttttg ggggctttga 180
agagccctgc ttccgctctt gttggcactc ttcagtctcc tgctaggga cttgttacgg 240
ttctcaaggc gcatattaag aaccttgaag aacaacaagg tggtgcgcaa tagatacaa 300
taggtgtgta gccttggtta tgtgttttct ttattgcatt tcagttgttc tttgtttcct 360

tatttgtcta tggatgtgta gattattatt attatcatgt gttttcttgt gaagaaaaaa 420
 aaatgtagaa tggtagcctag gaattgggaa tgctggaaaa tctgttcctt ttgaatcatg 480
 ctatttcact attt 494

<210> 4690
 <211> 570
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220067f07a1

<400> 4690

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 ctttctttgt atttctacag aggatttcaa aggtggaggt tgagattgat tactctgtta 120
 ctgtcgaaac agtaggaaat actgctatgg ggtgaggtca gtagcatagc tgatgacatc 180
 agagaagggtg gaagttctgt tgaaccaaat gacaaacaag atcaacatga taacatgact 240
 caagattcct ctggagggat cactatccca actgcaattc ccacagtatc agttgtttca 300
 gttgaagagc cctatgtggg tcaggagttt gggtcagaag cagcagcaca tgcattttat 360
 aatgcttatg ctacagatgt tggattcatt gtacgtgtga gtaaactctc gcggtcaaag 420
 cgtgatggaa ctgctattgg acgcactctt gtttgcaaca aagaggggtt cagaatggct 480
 gacaaacgtg aaatgaatgt gaggcaaagg gctgagacca gngttggttg cagggcaatg 540
 atattgtgaa gaaacttagt tctgggcaat 570

<210> 4691
 <211> 616
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067f08a1

<400> 4691

cgggcgggtt gtccacgcg cagtgtgat ggacctggag cccggaacca tggacagcgt 60
 gcggactggg ccgtacgggc agatattccg gcccgacaac ttcgtgttcg ggcagtccgg 120
 cgcgggcaac aactgggcca aggggcacta cacggagggc gccgagctca tcgactccgt 180
 ccttgacgtc gtgcgcaagg aggccgagaa ctgcgactgc ctccaggggt tccaggtctg 240

ccactcgctc ggcgaggaa ccggctccgg gatggggacg cttttgattt ccaagatcag 300
agaggagtac cctgacagaa tgatgctcac cttctccgtt ttctctccc ccaaggtctc 360
tgatactgtg gttgagcctt ataacgctac tctttctgtt catcagttgg tggagaatgc 420
tgatgagtgt atggtgcttg ataatgaggc gctctacgat atctgcttca ggactctcaa 480
gttgaccact cctagctttg gtgacttgaa ccacttgatc tctgcgacca tgagtgggtg 540
tacatgctgt cttcgattcc ctggtcaact caactttgat ctgaggaaat tgcccgtgaa 600
tcttattcct tccctc 616

<210> 4692
<211> 563
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220067f09a1
<400> 4692

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catcataata agtgggtatt gcaaggaagg caatatgccca gaagccttga ggtttctata 120
cagaatgaag gagcttgggtg tggaatccaa atccagtagt tttcaactct cttatcaaag 180
gatattctaga cactacagac acaaattggag tagatgaggc actgacgttg atggaagaat 240
ttgggatcaa accagatgta gtaaccttta gcaccatcat gaatgcatgg agttcagcag 300
ggcttatgga aaattgtgag gagatattca acgacatggt gaaggccggt atagaacctg 360
acatccacgc atatagcatc cttgcaaaaag gctatgtgcg tgccggacag ccacgaaaag 420
ccgaagctct tctgacttct atgagcaaat atggcgtaca accaaacgtg gtgatcttca 480
ctaccatcat cagtggatgg tgtgccgcat gcaaaatgga tcgtgcattt agactttgtg 540
agaaaatgca tganatggga act 563

<210> 4693
<211> 622
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067f11a1

<400> 4693

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aaggttgga ctgaggctga acttgtcccc accaagggca gcagcaacct caattatc 120
ttcttcggag ctgtcatcga cggagtcttc gacgttgtcg ccggtgtcgg tgcaatcgct 180
ggagagctcc tgcgtgtctt ccgaggctga agagacaagg gcaatgtctt tctgtgggtg 240
tcctcgggtgc ctcttgatg ttatgttggtc ggaggttgac cctaaatgcc ccaaagcaa 300
gagtactgtg ttgcttgact tcctcaacaa cgaggaaaac aataccaaga agagtagcag 360
cgagtggag atagtgtgtg aacaccacat gcattaccgt cgaagattaa ccactccacc 420
tagtaccaag aaaatgttgt tttttgttat tgttggtatt cccttttttag ttaattatta 480
gagtagaatt ggcattttcc tctctcaagt tttttctgtg aaattttgct ggtacttact 540
gtacctgtac aagacaattt gcaagttaag ggaagagatt ttaaatttga agttttattaa 600
aaaaaaaaa aggccgtcga cg 622

<210> 4694

<211> 614

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220067f12a1

<400> 4694

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ttttctatgg tgactatccg gagagtatga aatcttcagt aggttctagg ctcccaaat 120
tcacaaaagc tgaatctgaa agtctaaaaa attccataga ttttcttgggt gtgaattact 180
acaccactta ttatgcggaa catgctgaac ctgtcagtgc caaccgaacc ttctacacag 240
acatactagc cagtctcagt acggaaagga atgggtctaca tgttggaacc ccgactgatt 300
tgaattggct ctttatcttt ccaaagggaa ttcattctct tatggcacac ataaaggata 360
aatacaagaa tcttcctatt tacatcactg aaaatggcat ggctgaatca aggaatgact 420
caataccagt caatgaagcc cgcaaggata gtatcatgat tagataccat gatggacatg 480
ttagatccct tcataagcga tcaaggaagg tgtaatttg aaaggctatt atgcatggtc 540
attttcggac agtnttgaat gggatgctgg ttacacagtt cgattcgggc tcatatatgt 600

ggatacaaga acac

614

<210> 4695
<211> 494
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220067g01a1

<400> 4695

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cccaagagag gaagaaagaa agaaaagagt ataaacacac aatatctctt taaactcttg 120
acccttctct tggaggcatg gctttcccaa ttctcttctt tctcttcatt tcccttcctt 180
tctctccgc aaagctcaac gtcgattact acaaaaacac atgccagac ttcgaaaaaa 240
tcgttaggga aaacgtcttc accaaacaaa gcgctagcgt ggccacagca ccgggtctcc 300
ttcgctctt cttccacgat tgcataccg atggctgcga cgcttccttc ctcataactt 360
ccaatgcata caaccctcat gcagaacgtg atgcggacct caaccttct ctctccggtg 420
atgccttga catcatagtt aaaatcaaaa acgcattaga acttgcatgc cctggtgttg 480
ngtcgtgttc cgac 494

<210> 4696
<211> 516
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220067g02a1

<400> 4696

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cgtcagctcg gcagatctgc tcgaggcggc ttcaaccttg tagttattct ctttcttctt 120
tattagctat ccctctcttg aaaaatctag atctcgttct tccttgatct acgttacgct 180
attagagacc ggatctgtat ggatctgaac cagatctaca cgccgatggg ggctaaggcg 240
ctggcctatc atcagatctg atgcagtggg aggcgtcagc atgctactgg taacacgagg 300
atacgtgtat gataatggga tgagaacaac gcatatgcag ccgcttacga ttgttcgac 360

gctacacacg ctcgaatcgg attattcatg attgatccat atacagtatg tcttcgctcc 420
 ggctatagta gctgcgcac tccgatgtgg tcaaacaagt gtatgaagtg aagctatggg 480
 ctggaaaatg tggacgccag agattccggg accaaa 516

<210> 4697
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067g03a1
 <400> 4697

catttttggg agaaggtttg caatttagca tctgataact caagaagtga tgagggaaat 60
 tagctcgaaa atgtatgtaa ttgattcatt tagaactttg tggaggagga atttgcattg 120
 cgagaggact tgttggtta gttgtaagac ccggcatcta tcataatgac tacatcatca 180
 aggatccaat ggtagattg aaagagactg gttcatgggc atagaacacc ctatataata 240
 acctgattct ttctgccagg agattcttcg agcatatggc tccacggaga attgcatgac 300
 tctatctaac ccgttctagt tgccctggag tattgtatgc ctatgctcaa gtcatatata 360
 caatatatcc aagtatcgtc caggagagta tgttcttaac aactactttt cgtgacaggc 420
 aatgattata tatcatctaa tagatagtga cctgttgatt gatgatcttc tgcaccta 480
 attgtaaattg ttacct 496

<210> 4698
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067g04a1
 <400> 4698

gcgtcctttt ttttgatgtt ttatgtatac ttactgttg gcacttgac acatgatttg 60
 ccctgaacat gacgtgatct tagacgcact gtctggcgaa catgatacgg gggaacatga 120
 ttggagcgca ctactattcg tagccactgt ctcaacaccc tattgaatac ggaaaactat 180
 gtagcactcc aatttcaaaa ctactgcct acataagaaa attatccaca cagtagcatg 240
 accgatcatt tgataatggc aggtgcatcg gaaggaaatg atgccaccta ccagacagca 300

tacagtttta ttagatagag aggctgttgg caattcctct gaaagtcagg cctttccac 360
 tggttagaat aagcccgtg tatggcattt gggccgtcc attacggtc ctaaggcttg 420
 aattcgcgtt gctccctgag attttgacct gaatttcctt caagtcggat ccaaactatt 480
 taaaggcttg aattgcctt 499

<210> 4699
 <211> 406
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067g05a1

<400> 4699

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<210> 4700
 <211> 494
 <212> DNA
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<223> Clone ID: jC-gmf102220067g06a1

<400> 4700

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<210> 4701
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220067g07a1
 <400> 4701

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<210> 4702
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220067g08a1
 <400> 4702

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 gtgatgctca gattactgcg tgctttgaca ttgatgccaa tgggattttg aacgtctctg 180
 ccgaagataa gaccactggc cagaaaaata agatcactat caccaatgac aagggttagac 240
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 aagagcacac aaagaagggtt gagggccaaga atgctttgga aaactatgca tacaacatga 360
 ggaacactgt gaaggatgac aaaattgggtg agaaacttga tcctactgac atgaagaaga 420

ctgacgacgc aattgatcaa gctatccagt ggctagacag caaccagctc gcagaagcag 480
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<210> 4703
<211> 657
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220067g09a1

<400> 4703

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atcggtgagt atgagtctga agagtagtag cttagtgaat tttcttttgc tgggttcaga 180
gacgagagtg agaagcagaa ggagtgtcat cgtagcgtgt gcttcagagg gagacagtgg 240
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tgctgaagag agatttcagg atgctgctag ttatcgtgat gagctaaaca aaattgctcc 480
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taaatacttt ntgtctccta gatagttcta tcttgatgta agctatctta agagaaatac 600
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<210> 4704
<211> 592
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220067g10a1

<400> 4704

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aagacacccc aaaatatgaa ttattaagag catatacggt tttgctttct ttgttgctgc 180

tgcccttctt gtgttgcata acacaaccta ttcttttacc actgtgatac ccatttgatt 240
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 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067h01a1
 <400> 4705

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 gtaccaattg gtcacttttg atctttccta cttggccttt tactacaacc agaagctctt 180
 gttttacaag ggtgaagatt tcgagggcat ggtccaaaaa ctcaaagttg gacttggagt 240
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 cagagtggag tatgatgatg acatgcttgg tgtggaggtt gttgaagctg ctgtagctga 360
 tgatgaaatt ggcgtggatg atctaactgt ggctgaaatt agtaacactt aattgaagga 420
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<210> 4706
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067h02a1
 <400> 4706

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gtaccaattg gtcacttttg atcttcccta cttggccttt tactacaacc agaagctctt 180
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tgatgaaatt ggtgtggatg atctaacttg gggtgaaatt agtaacacta atttgaagga 420
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tc 482

<210> 4707
<211> 483
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067h03a1
<400> 4707

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ata 483

<210> 4708
<211> 495
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220067h04a1
<400> 4708

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 aagaactgga cttattatgg ttgatcgtat actttactca tcagttgttt atcctcacia 360
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<210> 4709
 <211> 573
 <212> DNA
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 <223> Clone ID: jC-gmf102220067h05a1
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 gccacctgcc ttgtcaccgg acctaaattt gacggttccg gtaacttctg ctgccctac 360
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 aaggagact agtcacgctt tctggacaat cagcaccag cagtgcggc tgcatatgtg 480
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<210> 4710
 <211> 497
 <212> DNA
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